

**FRENCH LIMITED SITE  
CROSBY, TEXAS**

**Groundwater Sampling Report  
1<sup>st</sup> Quarter 1999**

**Prepared for:**

**FLTG, Inc.  
Crosby, Texas**

**Prepared by:**

**Applied Hydrology Associates, Inc.  
Denver, Colorado**

**Submitted to:**

**U.S. Environmental Protection Agency  
Region 6  
Dallas, Texas**

**June 1999**

**193475**



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## **1.0 Introduction**

This report presents the results of groundwater sampling performed at the French Limited Superfund site, Crosby, Texas, for the 1<sup>st</sup> quarter of 1999. Aquifer measurements and sampling were completed in January 1999.

Analytical results of the January 1999 sampling are tabulated in Appendix A, including historic results since the shutdown of active remedial operations in December 1995.

Water levels measured for the January 1999 sampling are tabulated in Appendix B, including historic results since the shutdown of active remedial operations in December 1995.

## 2.0 Progress monitoring

Groundwater measurements and sampling for the 1<sup>st</sup> quarter of 1999 were performed by Remedial Operations Group, Inc. (ROG), on January 20, 21, 22, 25, 27, 28 and 29, 1998. Measurements and sampling were performed in general accordance with Table 12.1, "Progress Monitoring Wells (1996-2005)", of the approved site closure plan<sup>1</sup>.

Water levels for the 1<sup>st</sup> quarter sampling event were measured by ROG on January 15 and 20, 1999. Locations of wells used for sampling and water level monitoring are shown in Figures 2-1 through 2-3. These figures also show the area where the S1 and INT units are not separated by the C1 clay aquitard. The area of this "C1 window", where the C1 clay unit is absent, is taken from *Evaluation of Stratigraphic Controls on DNAPL Migration*<sup>2</sup>. The significance of the C1 unit is discussed in Section 2.5.1.

Data management and QA/QC were performed by ROG. Analytical results were tabulated by ROG (Appendix A) and are evaluated below as follows:

1. Note volatile organic compound (VOC) and metals concentrations at or below maximum contaminant level ( $\leq$  MCL) or not detected (ND).
2. Note concentrations above maximum contaminant level ( $>$  MCL), and trends, if any. Note if detection limit (DL)  $>$  MCL.
3. Note elevated residual nitrate.
4. Note elevated pH concentration.
5. Prepare contour maps for nitrate, DO, TOC, benzene, 1,2-DCA, & vinyl chloride.

### 2.1 Concentration $\leq$ MCL or ND

Groundwater concentrations of the target metals and organics were reported  $\leq$  MCL or ND in the following wells:

FLTG-13, FLTG-14, INT-22, INT-60-P3, INT-108, INT-118, INT-127, INT-144, INT-214, S1-31, S1-33, S1-51-P3, S1-106A, S1-108A, S1-118, S1-135.

<sup>1</sup> Southwestern Environmental Consulting, Inc. January, 1996. *Site Closure Plan, French Limited Project, Crosby, Texas*.

<sup>2</sup> Applied Hydrology Associates, Inc. September 1995. *Evaluation of Stratigraphic Controls on DNAPL Migration*.

## 2.2 Concentration > MCL

Groundwater samples from the wells with concentrations at or exceeding MCLs are presented in Table 2-1. A comparison of the January 1999 sampling results with previous sampling results is presented in Appendix A.

## 2.3 Residual nitrate

Residual nitrate exceeded 0.5 mg/L-N at 11 wells, summarized in Table 2-2.

## 2.4 pH

Field pH values at nearly all wells were within the range 6.0-8.0, which is conducive to intrinsic bioremedial activity. Nearly all wells had pH values falling inside this range. Field pH values falling outside this range were 8.13 at INT-123, 5.89 at INT-214, and 5.92 at S1-118.

## 2.5 Contour maps

Contour maps for water level, nitrate, dissolved oxygen (DO), total organic carbon (TOC), benzene, 1,2-dichloroethane (1,2-DCA), vinyl chloride, and affected groundwater for the S1 and INT units in January 1999 are presented and discussed below. Contours are inferred from: the January 1999 sampling results at progress monitoring wells; results of previous quarterly sampling at wells which are now plugged; and monitoring data obtained during active operations (between January 1992 and December 1995). Therefore, the contours presented are not based solely on the data shown on the contour maps, but incorporate judgement based on four years of historic monitoring data at a significantly wider well network. Former wells are shown on the chemical plume maps. (For ease of reference, all maps follow the end of the text in Section 2.0).

### 2.5.1 Water levels

Appendix B presents depth-to-water readings, top-of-casing well elevations, and calculated water levels from January 1998 through January 1999. Previous reports have presented these data from April 1996 through January 1998. Appendix B also presents the average water levels between May 1997 (the date by which most of the wells in the water-level monitoring network were complete) and January 1999. Figures 2-4 through 2-7 show interpreted groundwater levels and flow directions in the S1 and INT units for mid- and end-January 1999.

Table 2-1

**Concentrations > MCL**  
(also shows ND where DL>MCL)

Well	Constituents and concentrations > MCL ( $\mu\text{g/L}$ )
INT-26	1,2-DCA < 10 benzene 380 vinyl chloride < 4
INT-101	benzene 7
INT-106	1,2-DCA 170 benzene 10 vinyl chloride 69
INT-120	1,2-DCA 27 vinyl chloride 25
INT-123	1,2-DCA 14 vinyl chloride 42
INT-130R	1,2-DCA 180 benzene 63 vinyl chloride 25
INT-130RS	1,2-DCA 480 benzene 36 vinyl chloride 170
INT-134	1,2-DCA 110 benzene 30 vinyl chloride 190
INT-135	1,2-DCA 6 vinyl chloride 14
INT-217	benzene 10 vinyl chloride 40
INT-233	1,2-DCA < 25 benzene 730 vinyl chloride < 10
S1-106R	benzene 22 vinyl chloride 3
S1-121	1,2-DCA 64 benzene 6 vinyl chloride 15
S1-123	1,2-DCA 65,000 benzene < 2,500 vinyl chloride 2,400
S1-131	benzene 41

GROUNDWATER AND SUBSOIL REMEDIATION  
GROUNDWATER SAMPLING REPORT

French Ltd. Project  
FLTG, Incorporated

Table 2-2

Residual nitrate (mg/L) > 0.5 mg/L-N

Well/date	1/96	4/96	7/96	10/96	1/97	4/97	7/97	10/97	1/98	7/98	1/99
INT-60-P3	41.6	112.0	100.0	91.0	74.4	50.5	91.2	32.7	45.0	105.0	61.0
INT-106	3	<0.2	<0.05	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	0.6	7.5
INT-120	63.1	23.3	66.0	21.1	47.4	31.0	38.4	33.1	26.5	62.6	55.1
INT-123	25.6	23.2	21.0	20.1	23.3	19.2	27.3	27.8	26.7	53.4	8.4
INT-127	4	47.9	<0.05	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.2	0.6
INT-130R	new	30.6	32.0	32.0	33.0	30.6	31.9	34.6	26.8	45.0	29.1
INT-130RS	new	23.2	20.0	17.5	14.0	12.5	12.7	10.0	3.6	20.3	11.1
INT-134	1.8	0.5	0.8	2.0	2.9	1.0	2.6	7.1	9.7	9.2	16.8
INT-144	<0.2	<0.2	<0.2	<0.2	0.2	0.7	0.2	<0.2	<0.2	4.8	6.1
INT-217	0.51	<0.2	<0.05	<0.2	<0.2	<0.2	<0.2	<0.2	10.3	1.8	<0.2
INT-233	<0.2	<0.2	<0.05	<0.2	<0.2	<0.2	4	<0.2	1.8	4.8	<0.4
S1-106A	92.3	16.6	23.3	11.4	16.2	15.4	12.9	9.8	7.0	10.8	8.51
S1-121	56.2	<0.2	0.8	6.0	9.9	<0.2	4.4	7.8	<0.2	0.5	1.56

Water levels for the post-operational phase tend to reflect short-term, localized influences. Short-term rainfall events affect the water level in the South Pond and other surface water bodies, which act as localized recharge or discharge areas depending on recent rainfall relative to average. The normal maximum level for the South Pond appears to be controlled by a downstream beaver dam.

The S1 and INT water-level maps indicates that significant downward leakage from the S1 unit to the INT unit occurs in a localized area south of the west end of the former lagoon, where the C1 clay is absent ("C1 window"). In this area, the average hydraulic gradient in the S1 unit is NE towards the C1 window, whereas the average hydraulic gradient in the INT unit is to the SW, away from the C1 window. This trend has been consistent since active remediation ended.

The other consistent feature is the extremely low hydraulic gradient south of the former lagoon and east of the C1 window. In both the S1 and INT units, the gradient is generally to the southeast, away from the clay window. Overall, it appears that the cutoff wall has created virtually stagnant groundwater flow conditions in the area south of the former lagoon.

An oxygen addition and focused pumping program conducted from March to July 1998 did not affect general groundwater flow conditions due to the limited injection and extraction volumes. This program is discussed in Section 2.5.3.

Three sets of paired S1 unit monitoring wells track head differences across the cutoff wall, which encloses an active phytoremediation area. The well pairs are P-6/P-5; S1-119/S1-121; and S1-126/S1-64. The first well of each pair is inside the cutoff wall; the second well is outside. Head differences are shown in Figure 2-4. In January 1999, hydraulic gradients were outward with from 0.7 to 1.47 feet head difference. It is planned that phytoremediation will eventually reverse this head difference.

The effectiveness of the steel sheetpile cutoff wall system used at the French Limited site was confirmed by testing described in *INT-11 DNAPL area, cutoff wall installation and permeability certification report*<sup>1</sup>. This report concluded that the cutoff wall is equivalent to a conventional 2.5-foot thick slurry wall with a permeability of  $1 \times 10^{-9}$  cm/sec. Hence, an outward hydraulic gradient will not result in significant outward migration of groundwater.

## 2.5.2 Nitrate

Nitrate contour maps for January 1999 are presented in Figures 2-8 and 2-9. There was little change over the last 12 months in the S1 unit and most of the INT unit. This is consistent with the very slow to zero movement of groundwater over much of the area south of the steel sheetpile cutoff wall (see Section 2.5.1). In the INT unit (Figure 2-9) at INT-144, nitrate has been steadily increasing since January

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<sup>1</sup> Applied Hydrology Associates, Inc. August 1995.

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1998. This may indicate that the groundwater flow in this area, which is consistently to the southwest, may be moving elevated-nitrate groundwater away from the site. This is a potential concern, as the water in that area currently slightly exceeds the drinking water standard for nitrate.

#### 2.5.3 Dissolved oxygen and oxygen addition

In response to some areas of residual affected groundwater, a program of oxygen addition was performed between March 16 and June 8, 1998, using 20 new 4-inch wells installed for oxygen addition. Cryogenic pure oxygen was injected at these wells under pressure. Oxygen addition was focussed at the well screen interval through the use of portable well packers set 3 to 4 feet above the top of the screen. The oxygen addition program is described in *Oxygen Addition and Focused Pumping, Well Installation Report and Operational Procedures*<sup>1</sup>, and results are discussed in *Oxygen addition and focused pumping - progress update*<sup>2</sup>.

Dissolved oxygen contour maps for mid- and end-January 1999 are presented in Figures 2-10 through 2-13. Elevated DO concentrations in wells in both units reflect residual DO from the oxygen addition program. The area of elevated DO, and the maximum DO concentrations, have both decreased significantly in both units from a post-injection high in July 1998. This may indicate use by aerobic bacteria to break down site chemicals.

#### 2.5.4 Total organic carbon

Total organic carbon contour maps for January 1999 are presented in Figures 2-14 and 2-15. TOC concentrations are generally similar to the previous 12 months in both the S1 and INT units, and are notably higher at S1-123. The overall similarity to previous results indicates generally stagnant groundwater conditions.

#### 2.5.5 Benzene

Benzene contour maps for January 1999 are presented in Figures 2-16 and 2-17. Benzene concentrations are generally similar to the previous 12 months in both the S1 and INT units; benzene may be higher at S1-123, but has an elevated detection limit due to the very high 1,2-DCA (see Section 2.5.6), so the benzene concentration is unknown. Benzene was notably higher at INT-233. The increase in benzene and other VOCs at S1-123 since January 1998 suggests that there may be a continued source at S1-123. The overall similarity to previous results elsewhere indicates generally stagnant groundwater conditions.

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<sup>1</sup> Applied Hydrology Associates, Inc. July 1998

<sup>2</sup> Applied Hydrology Associates, Inc. July 1998

#### 2.5.6 1,2-DCA

1,2-DCA contour maps for January 1999 are presented in Figures 2-18 and 2-19. 1,2-DCA concentrations are generally similar to the previous 12 months in both the S1 and INT units. The July 1998 1,2-DCA concentration at S1-123 (280,000 ppb) indicates near equilibrium with material similar in concentration to the S1-13 DNAPL analyzed in 1994<sup>1</sup>. The overall similarity to previous results elsewhere indicates generally stagnant groundwater conditions.

#### 2.5.7 Vinyl chloride

Vinyl chloride contour maps for January 1999 are presented in Figures 2-20 and 2-21. Vinyl chloride concentrations are generally similar to the previous 12 months in both the S1 and INT units. The overall similarity to previous results indicates generally stagnant groundwater conditions.

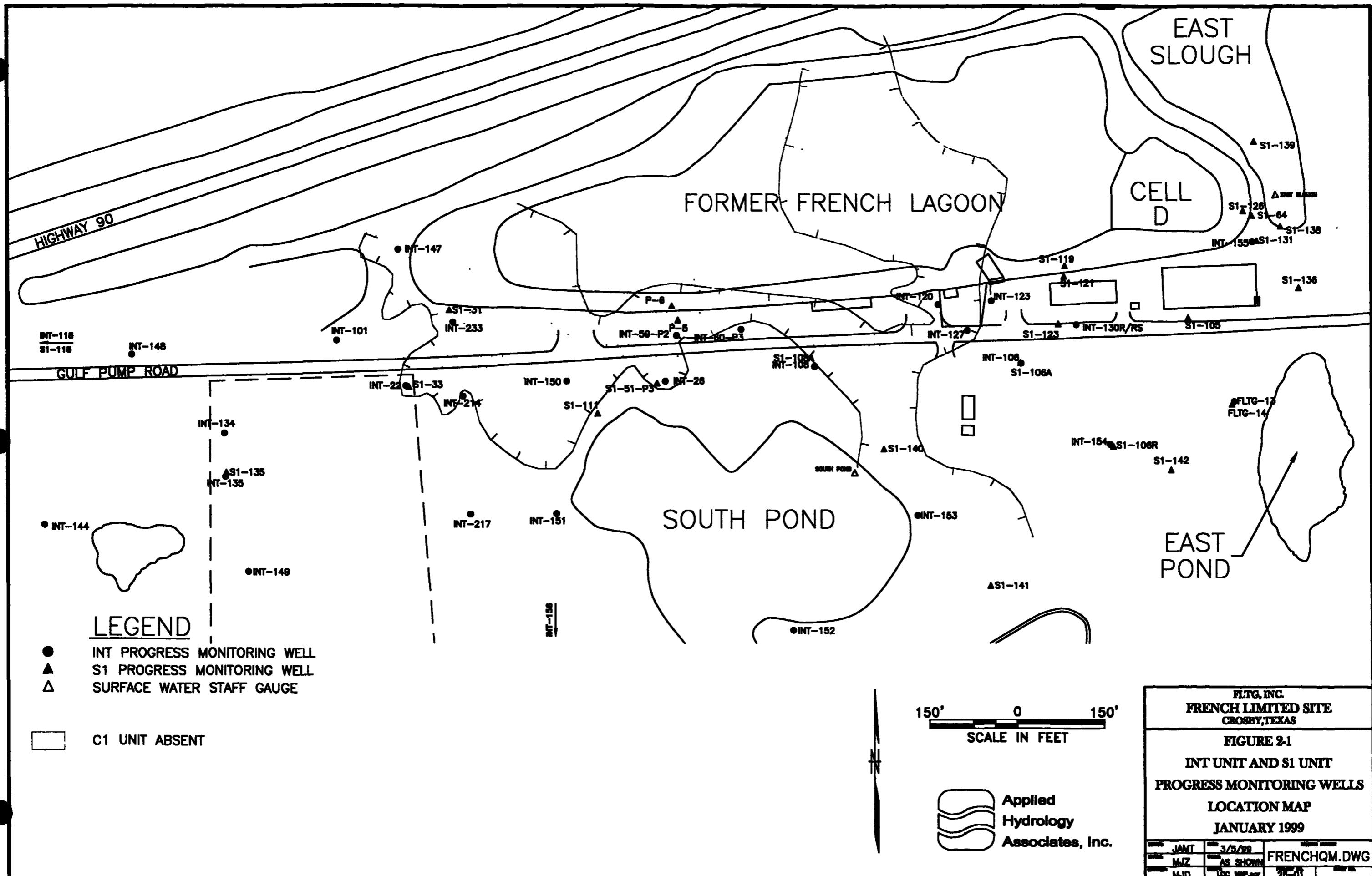
#### 2.5.8 Affected groundwater

The affected area in January 1999 is shown in Figures 2-22 and 2-23. These areas have not greatly changed over the last 12 months. The affected S1 and INT groundwater does not represent a threat to the public health or the environment, because FLTG controls all property that contains elevated concentrations of chemicals in groundwater, and all areas containing affected groundwater are potentially subject to institutional controls.

However, the very limited groundwater movement, the absence of natural attenuation trends in many areas, and the increases in VOCs at S1-123, indicate that natural attenuation trends need to be closely evaluated over the next several years.

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<sup>1</sup> 1,2-DCA mole fraction 3.6%, 1,2-DCA solubility 9,000 ppm, mole fraction x solubility = 324,000 ppb.

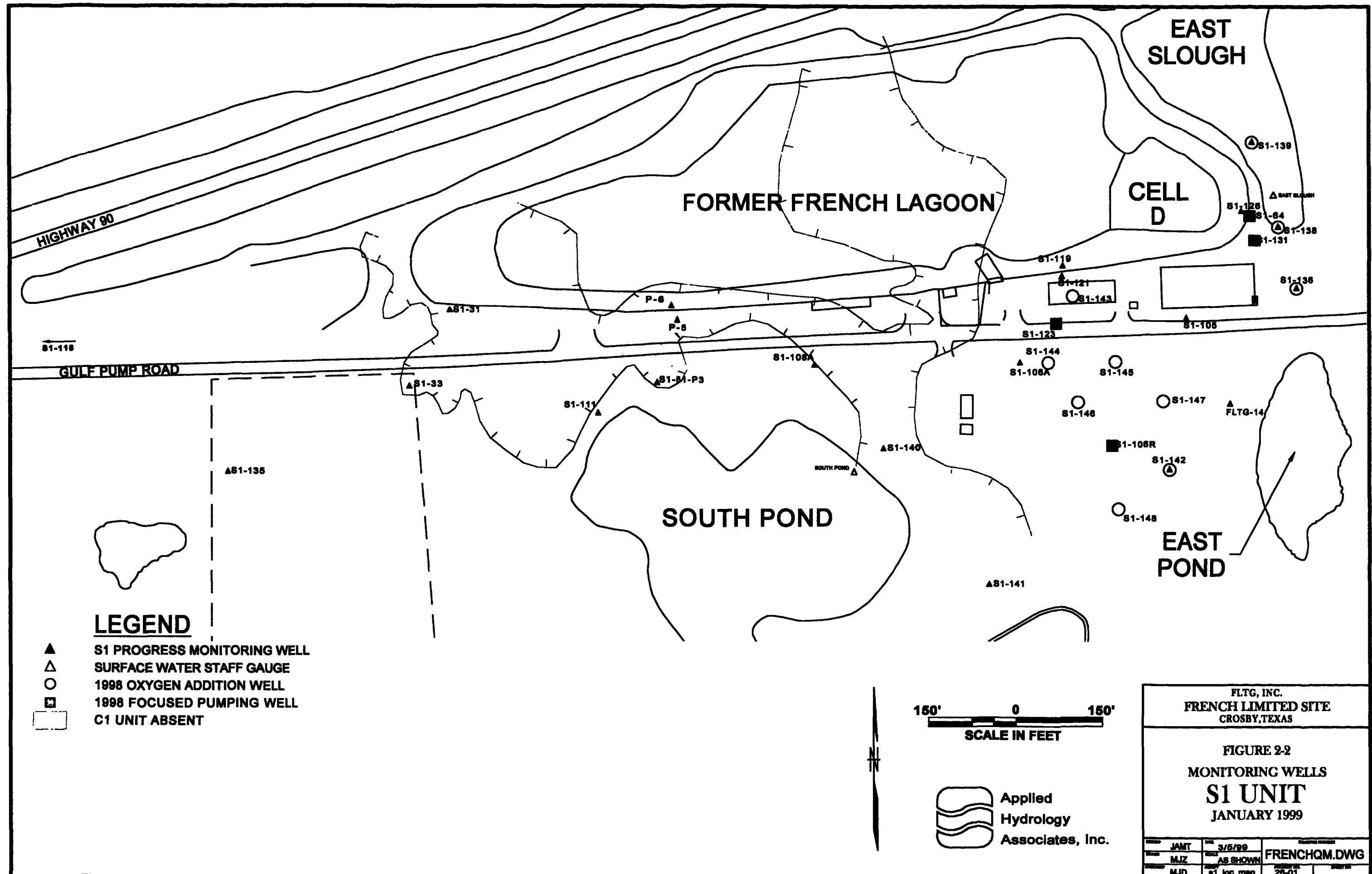


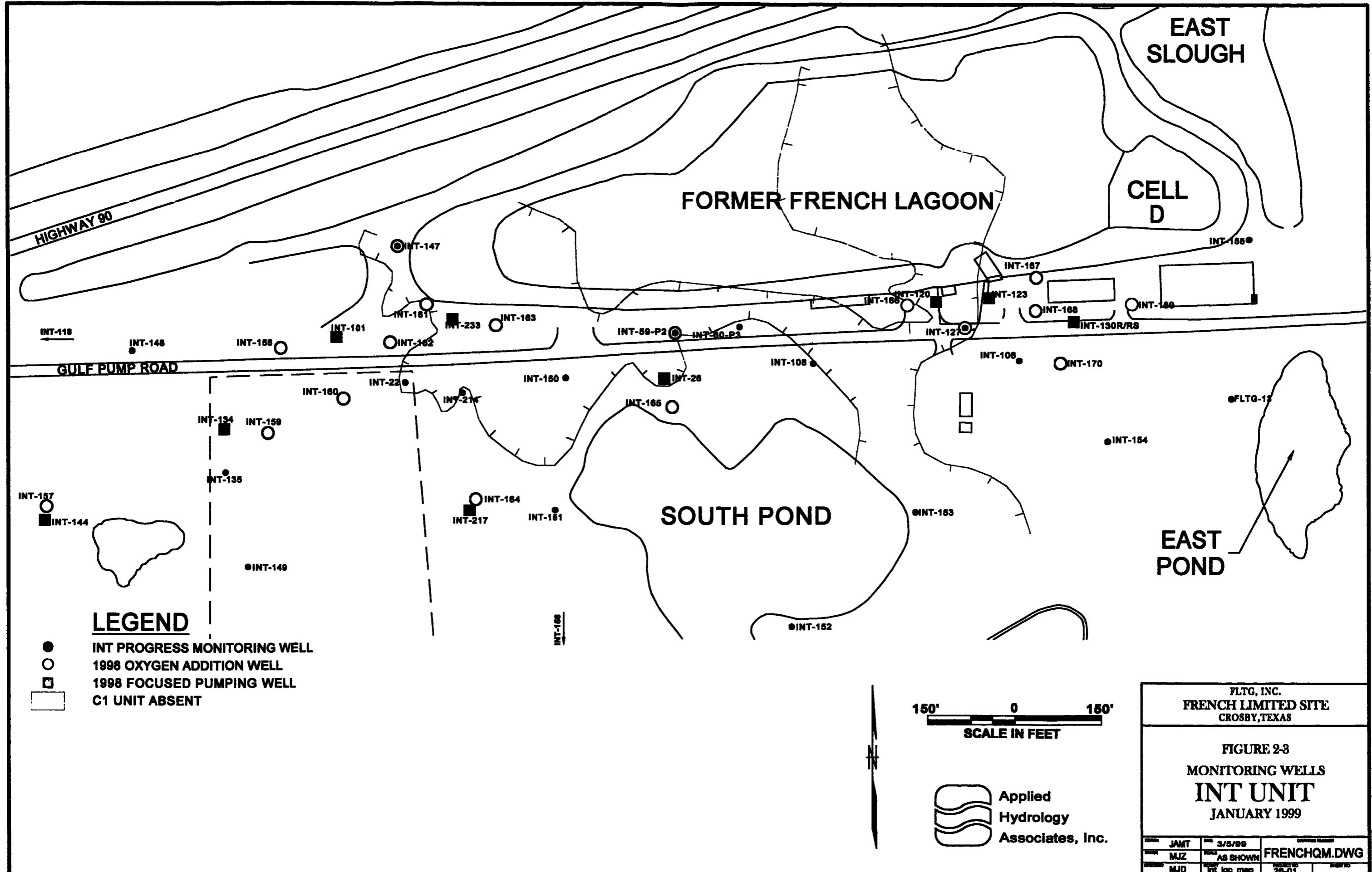
**FLTG, INC.**  
**FRENCH LIMITED SITE**  
**CROSBY, TEXAS**

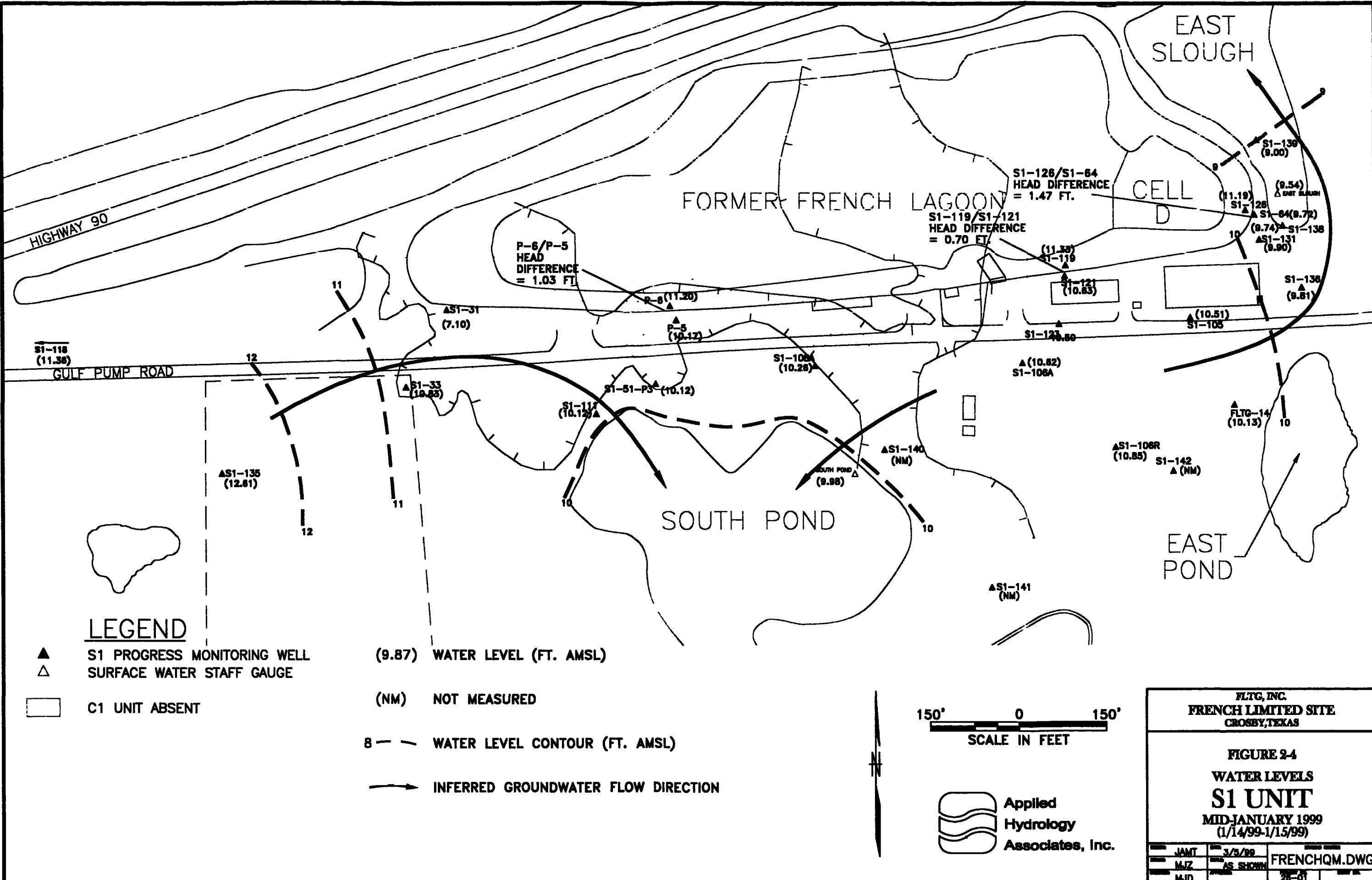
**FIGURE 2-1**  
**INT UNIT AND S1 UNIT**  
**PROGRESS MONITORING WELLS**  
**LOCATION MAP**  
**JANUARY 1999**

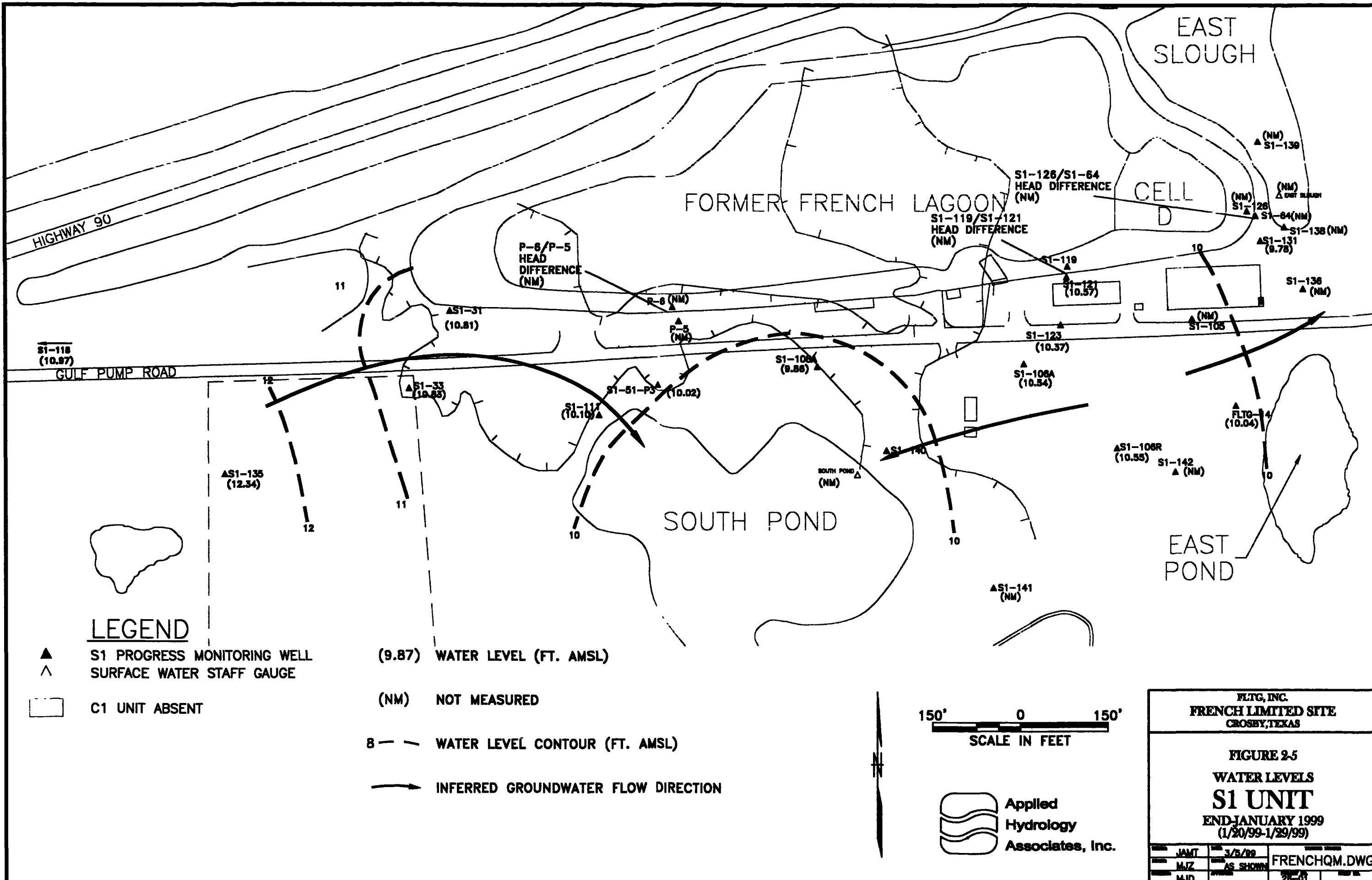
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MJZ	AS SHOWN
MJD	LOC. MAP SEE 2B-01

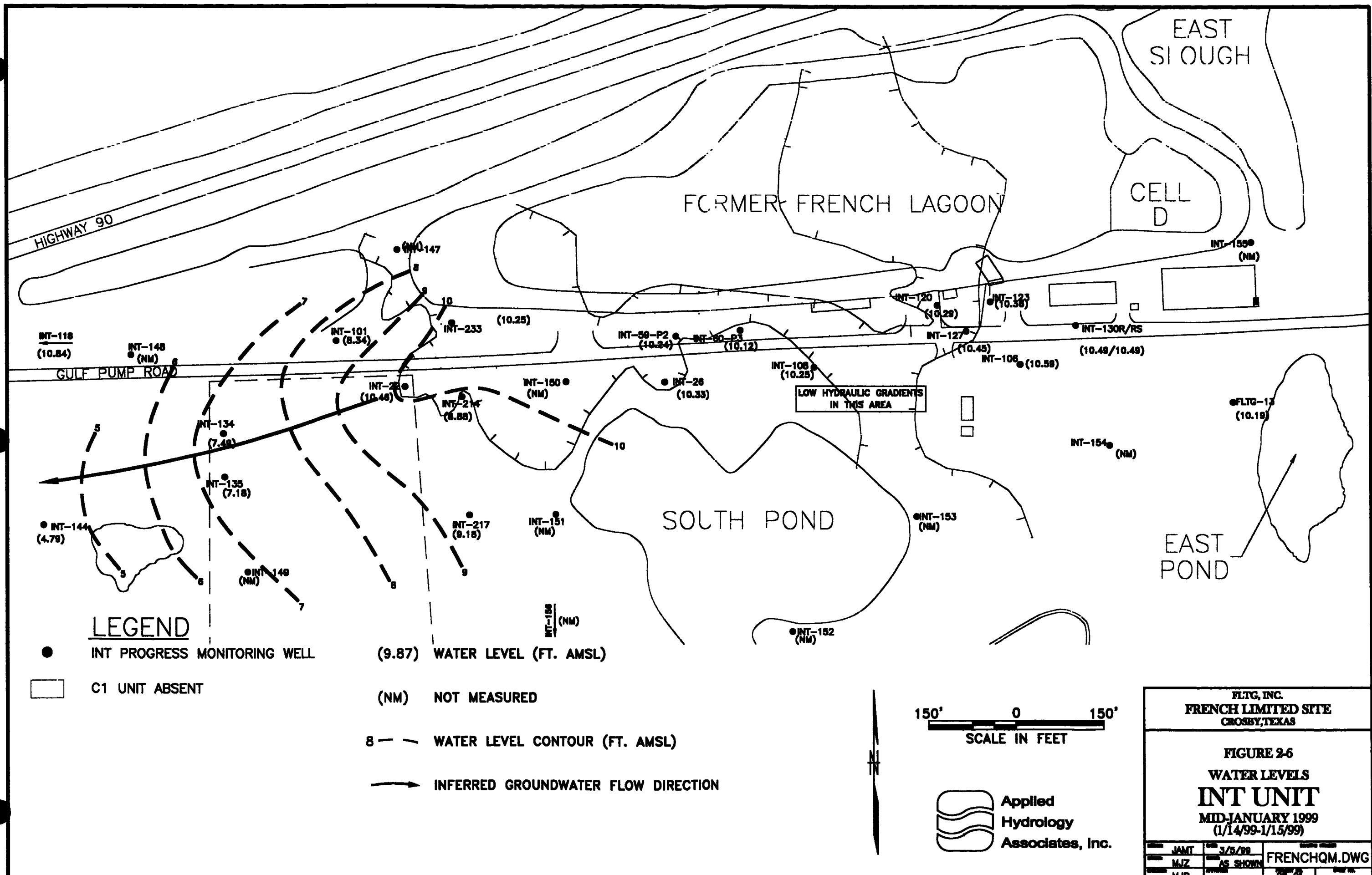
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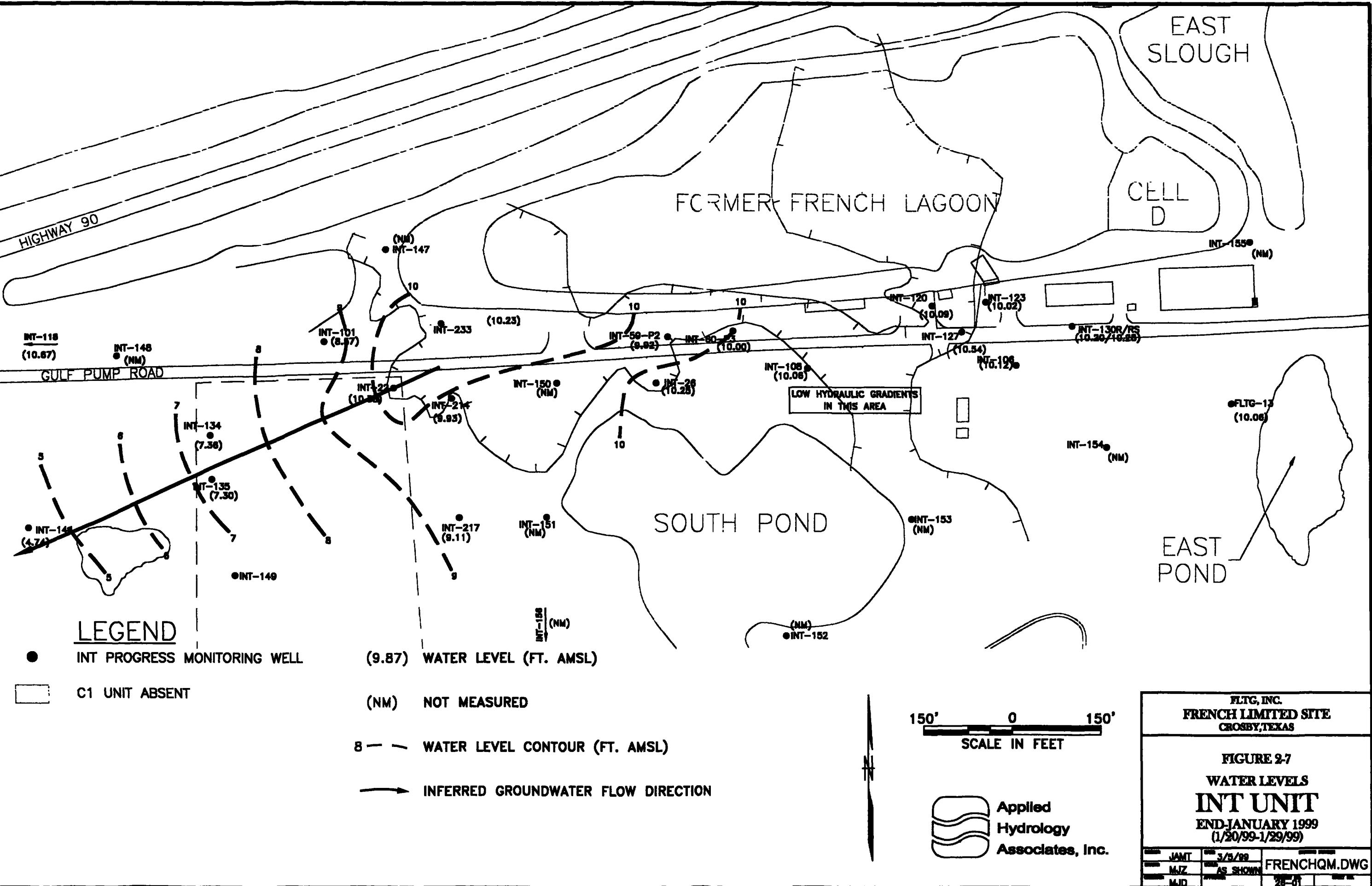












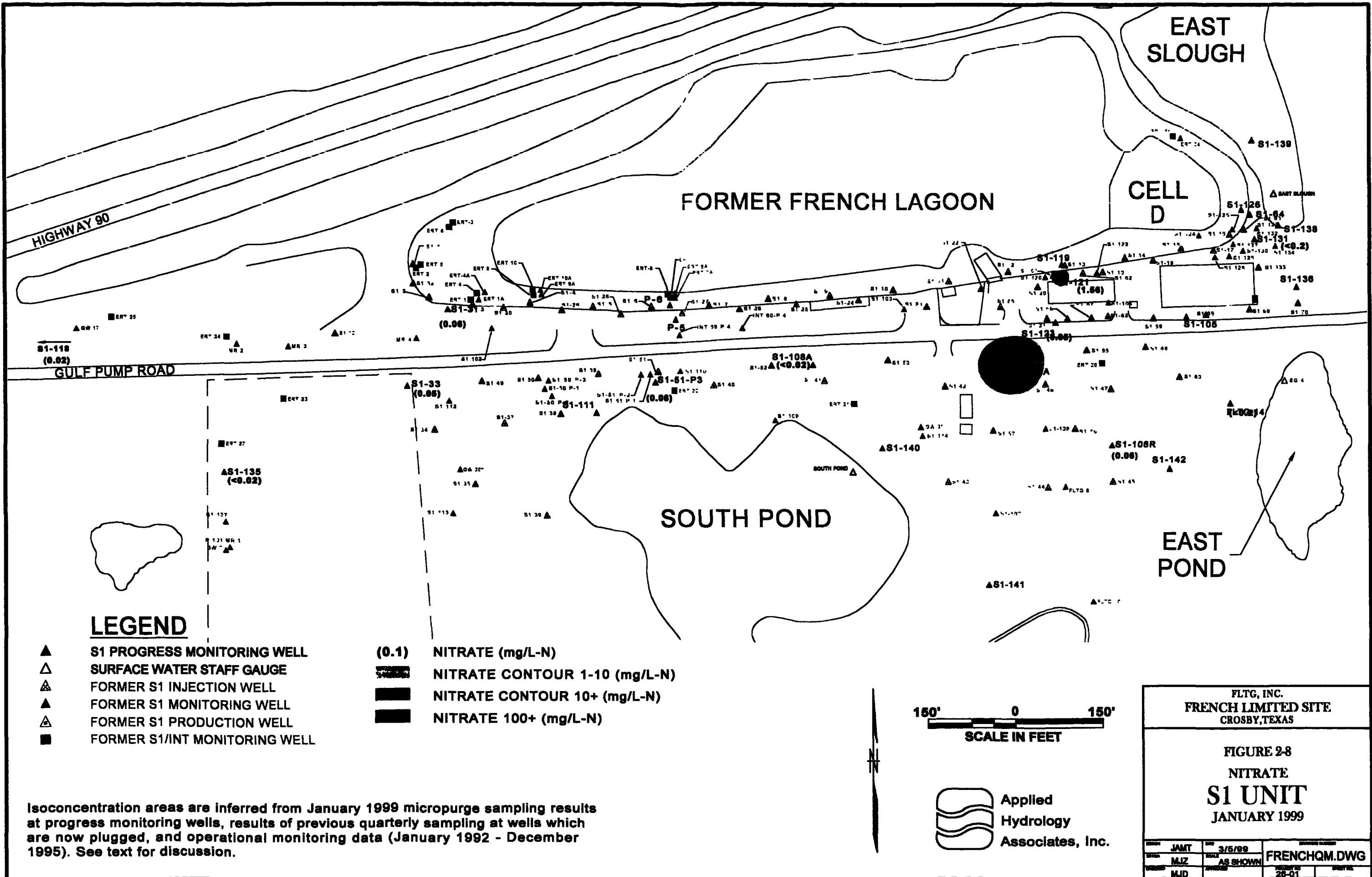
The logo for Applied Hydrology Associates, Inc. It features a stylized icon on the left consisting of three horizontal, wavy, rounded bars of increasing height from bottom to top. To the right of the icon, the company name is written in a bold, black, sans-serif font, with each word on a new line.

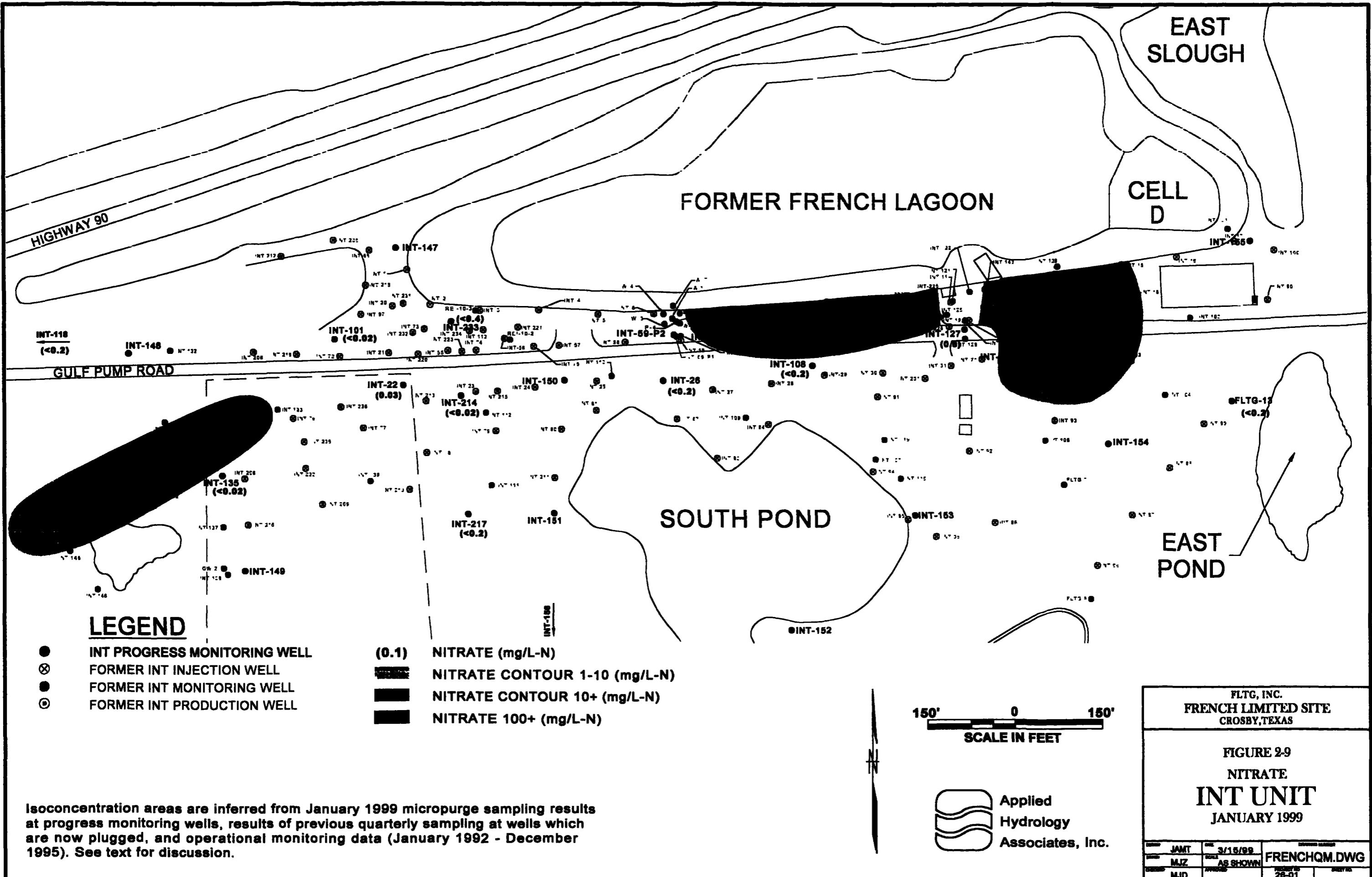
**FLTG, INC.**  
**FRENCH LIMITED SITE**  
**CROSBY, TEXAS**

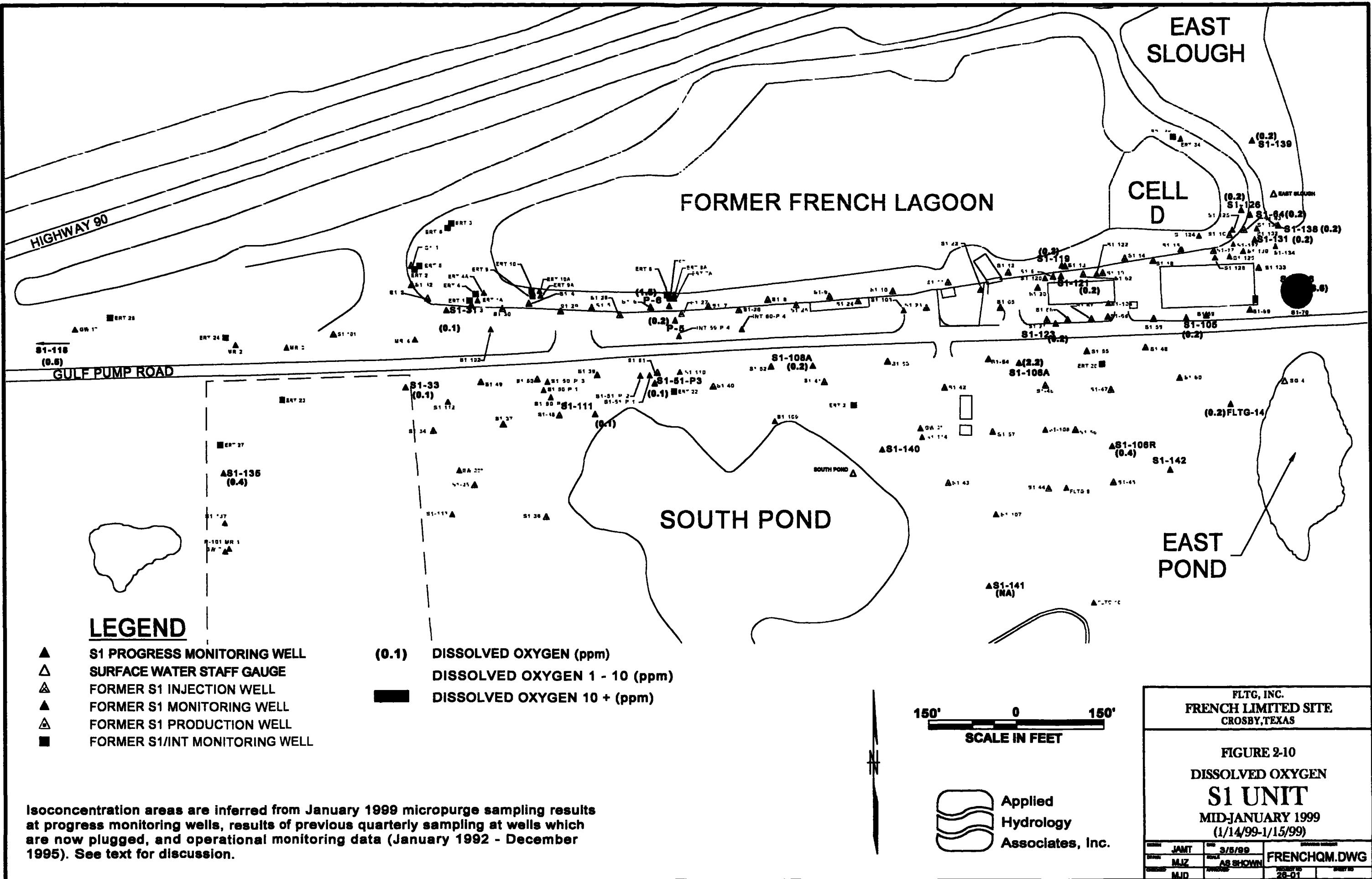
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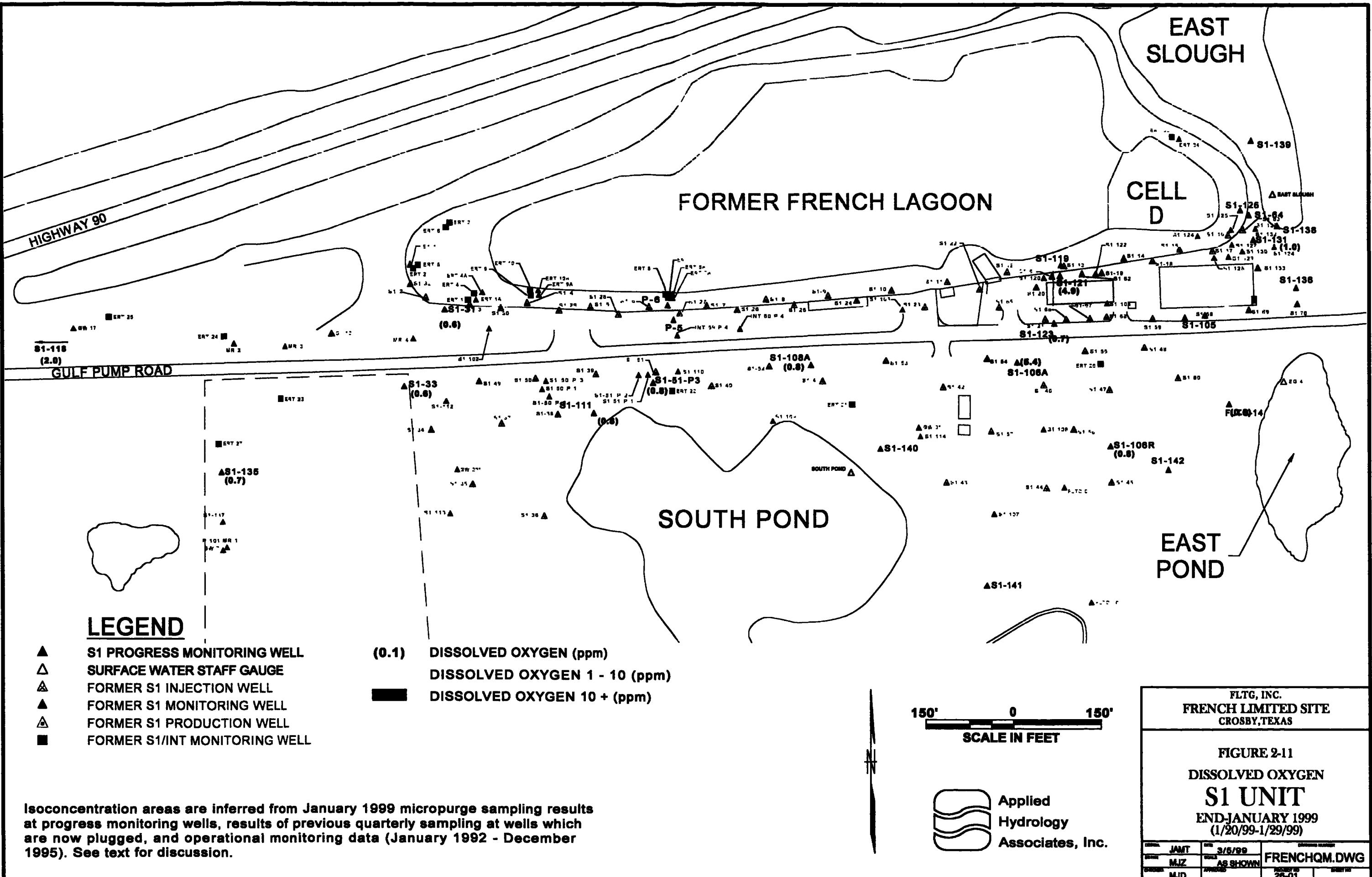
**FIGURE 2-7**  
**WATER LEVELS**  
**INT UNIT**  
**END JANUARY 1999**  
**(1/20/99-1/29/99)**

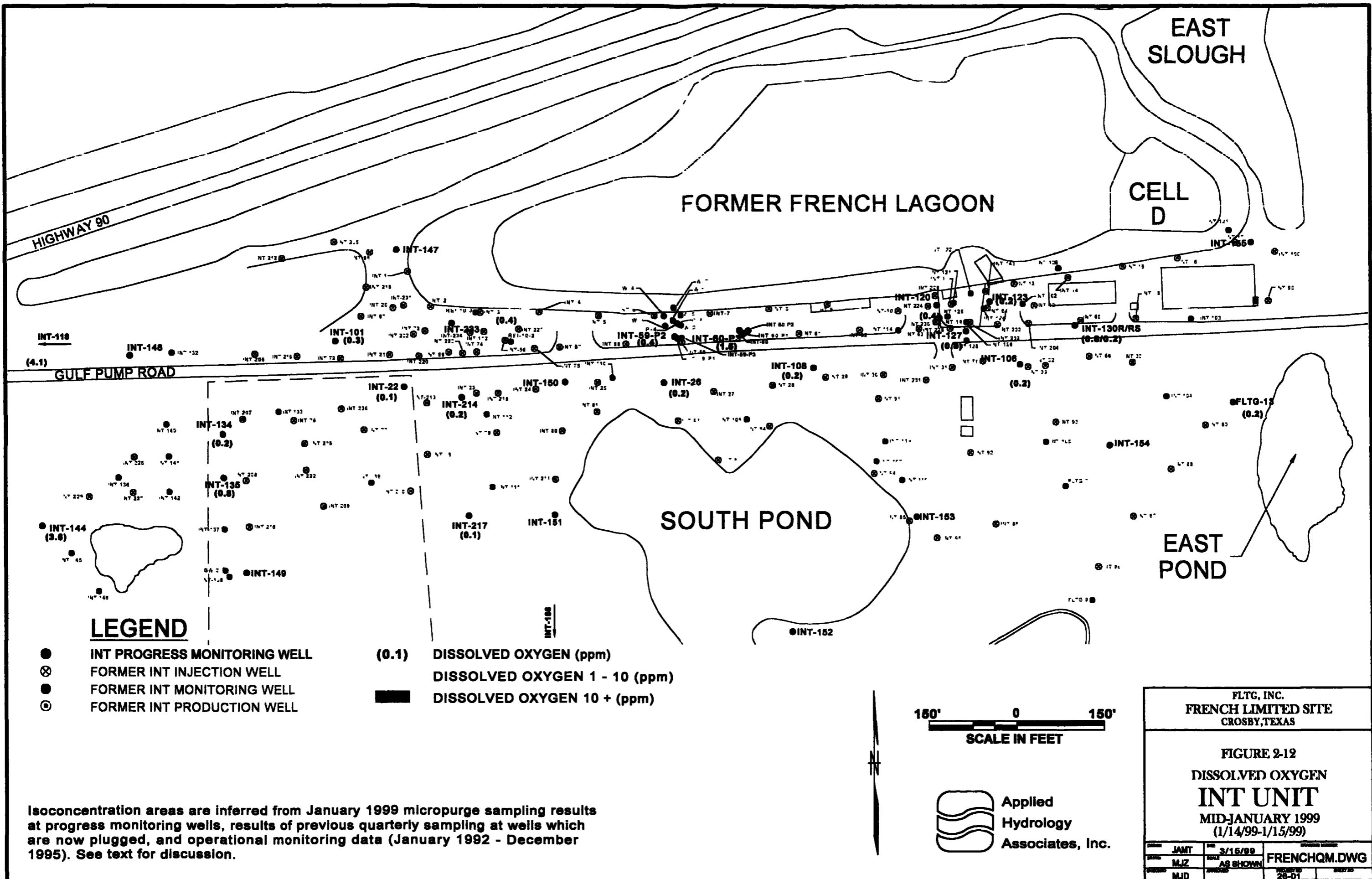
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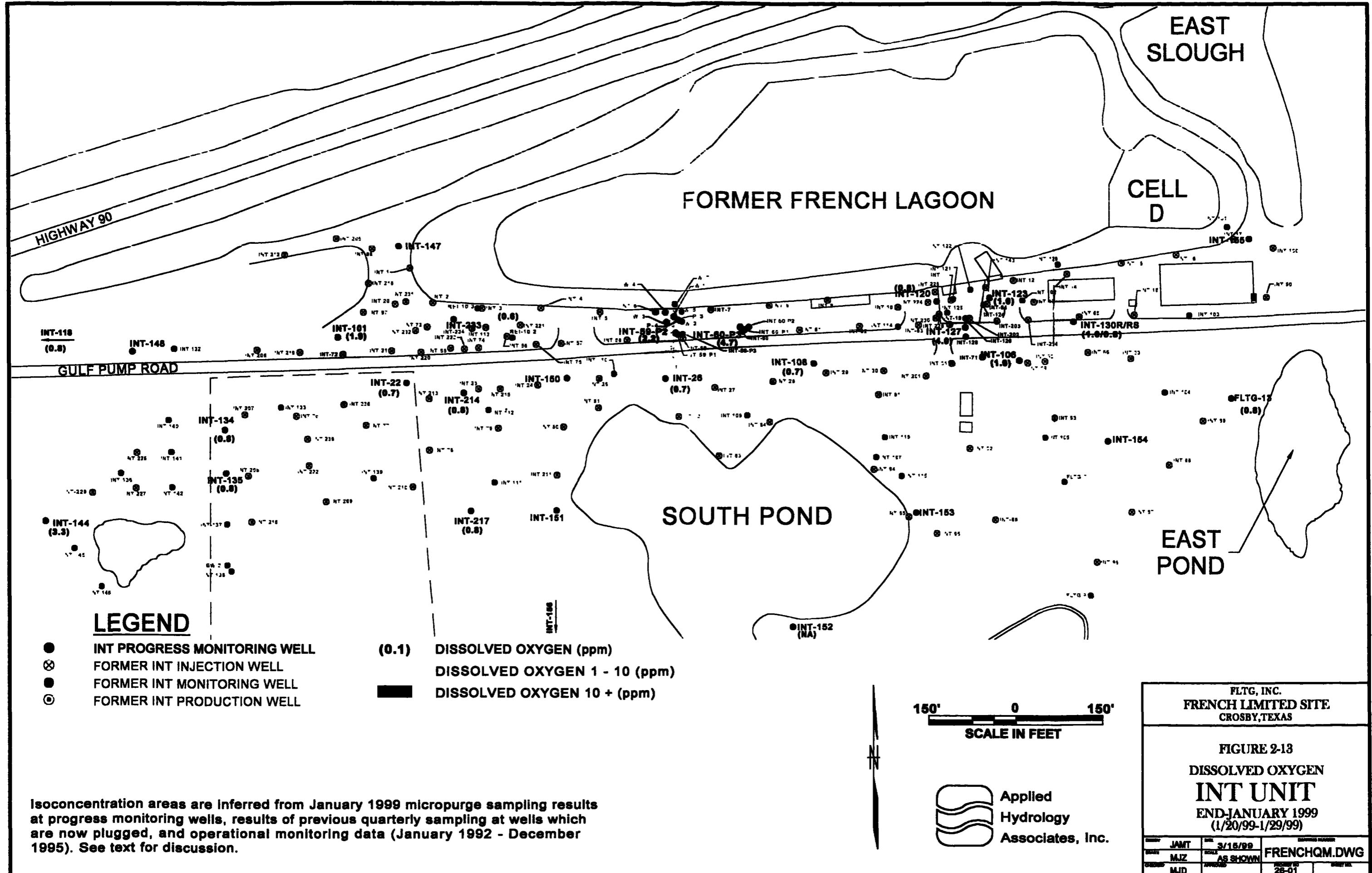


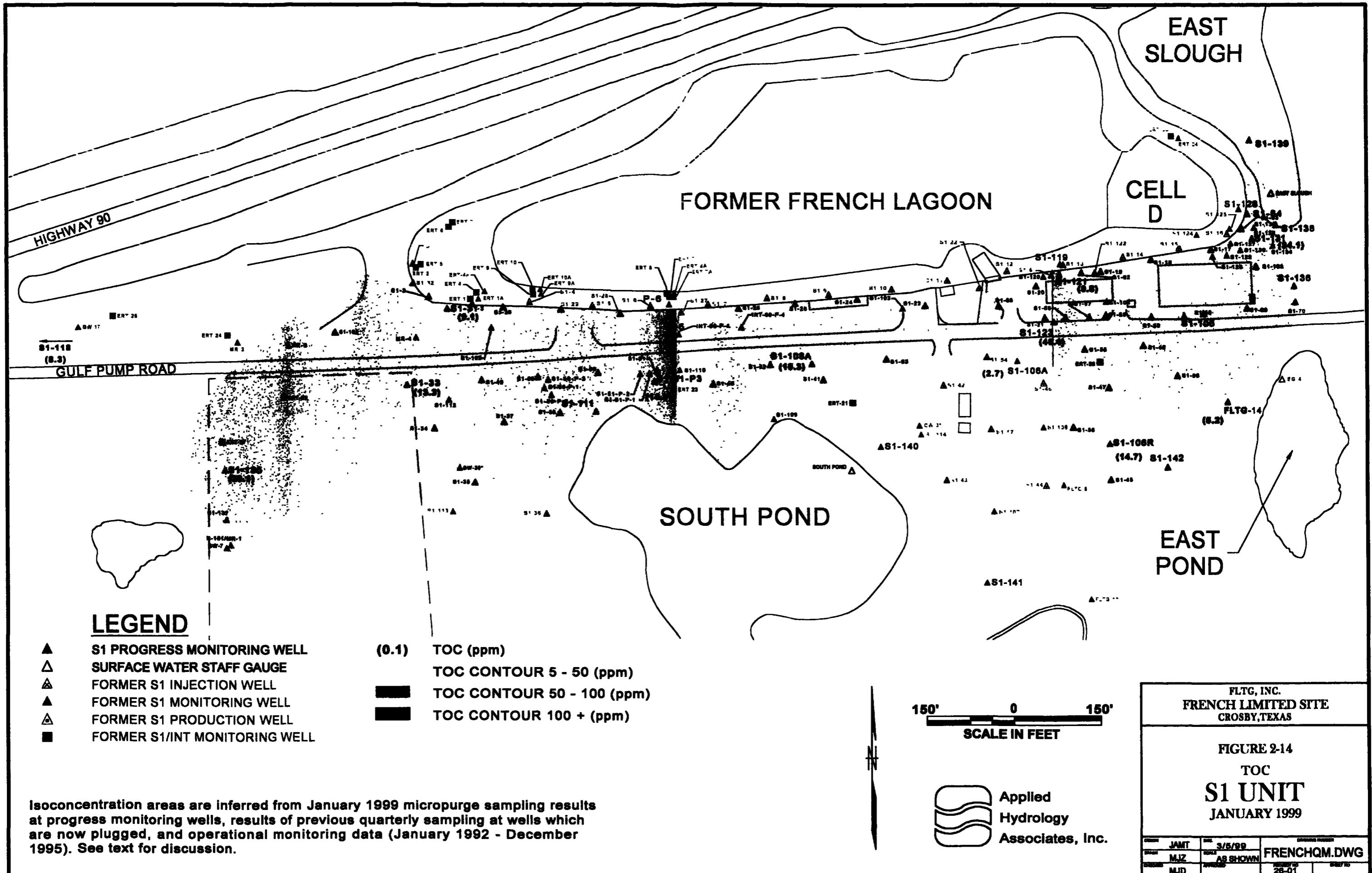


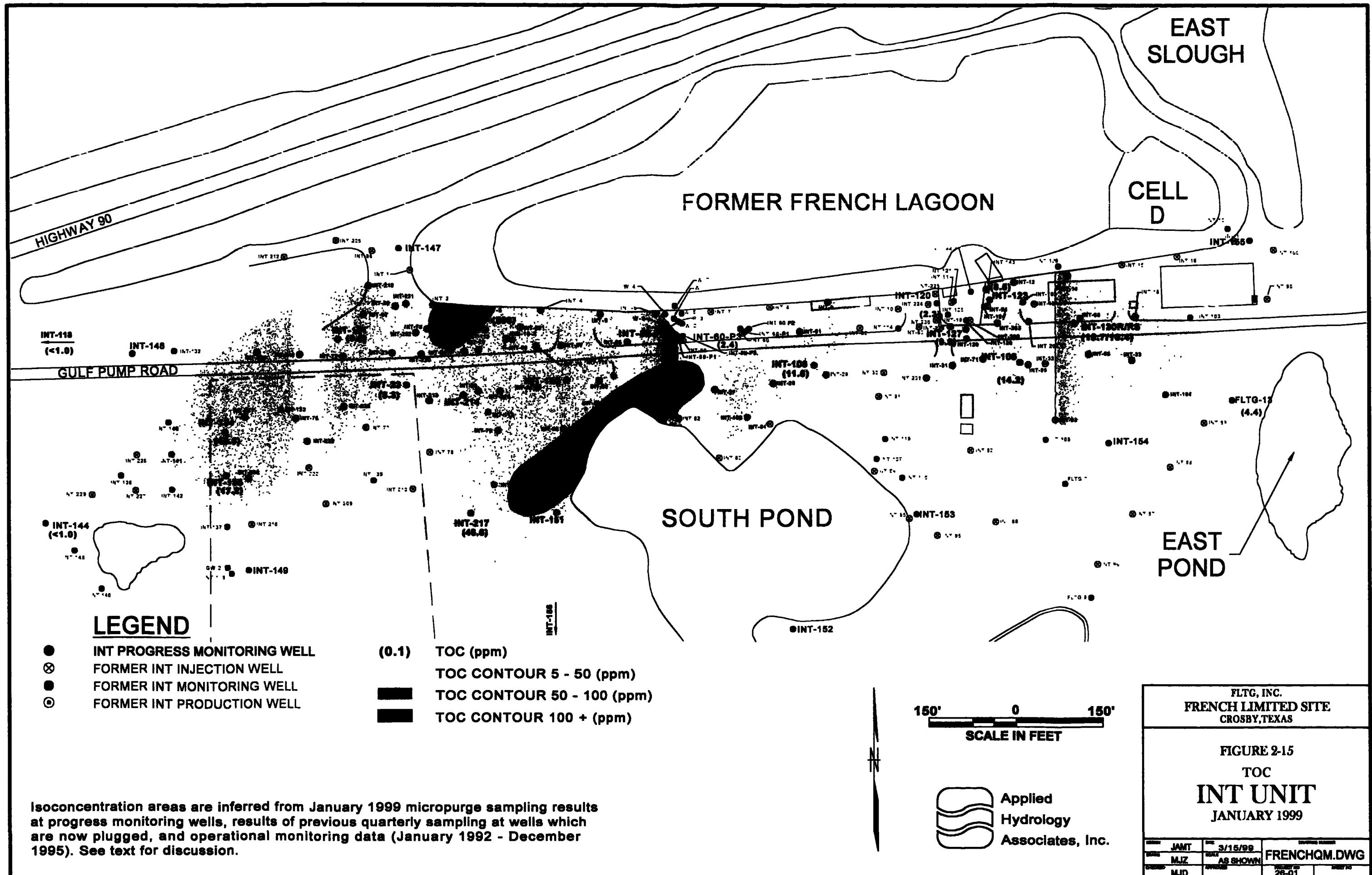


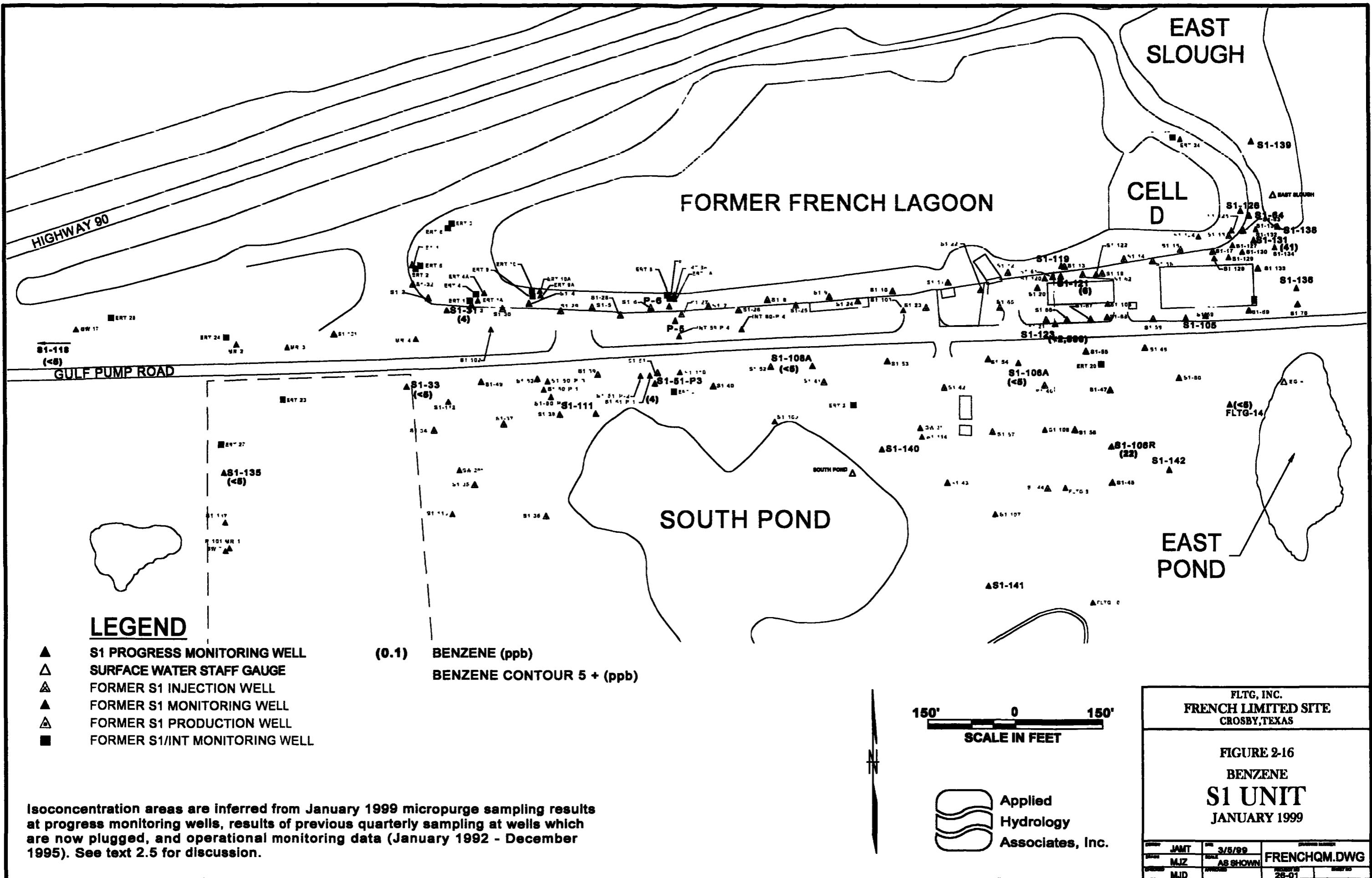


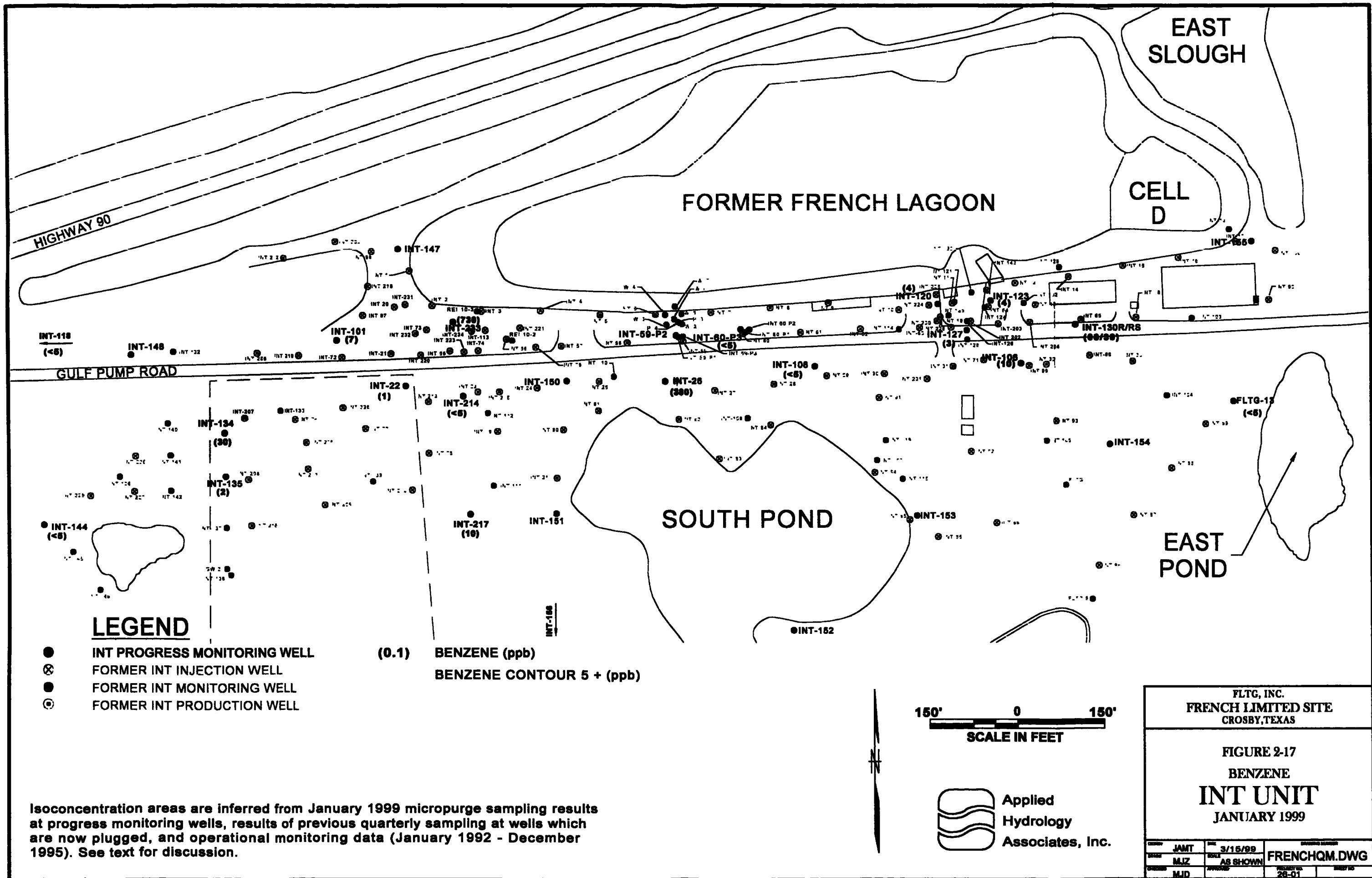


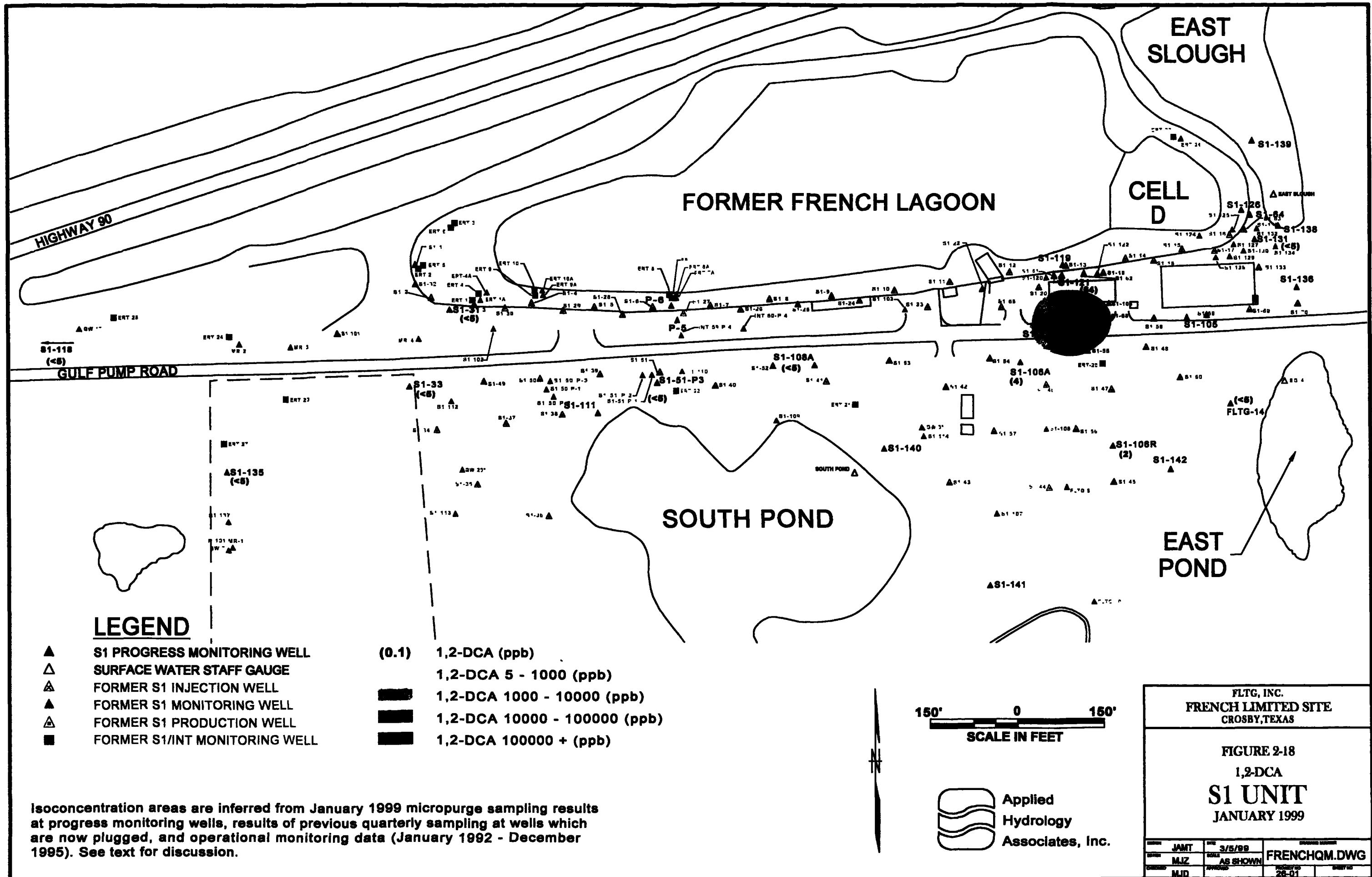


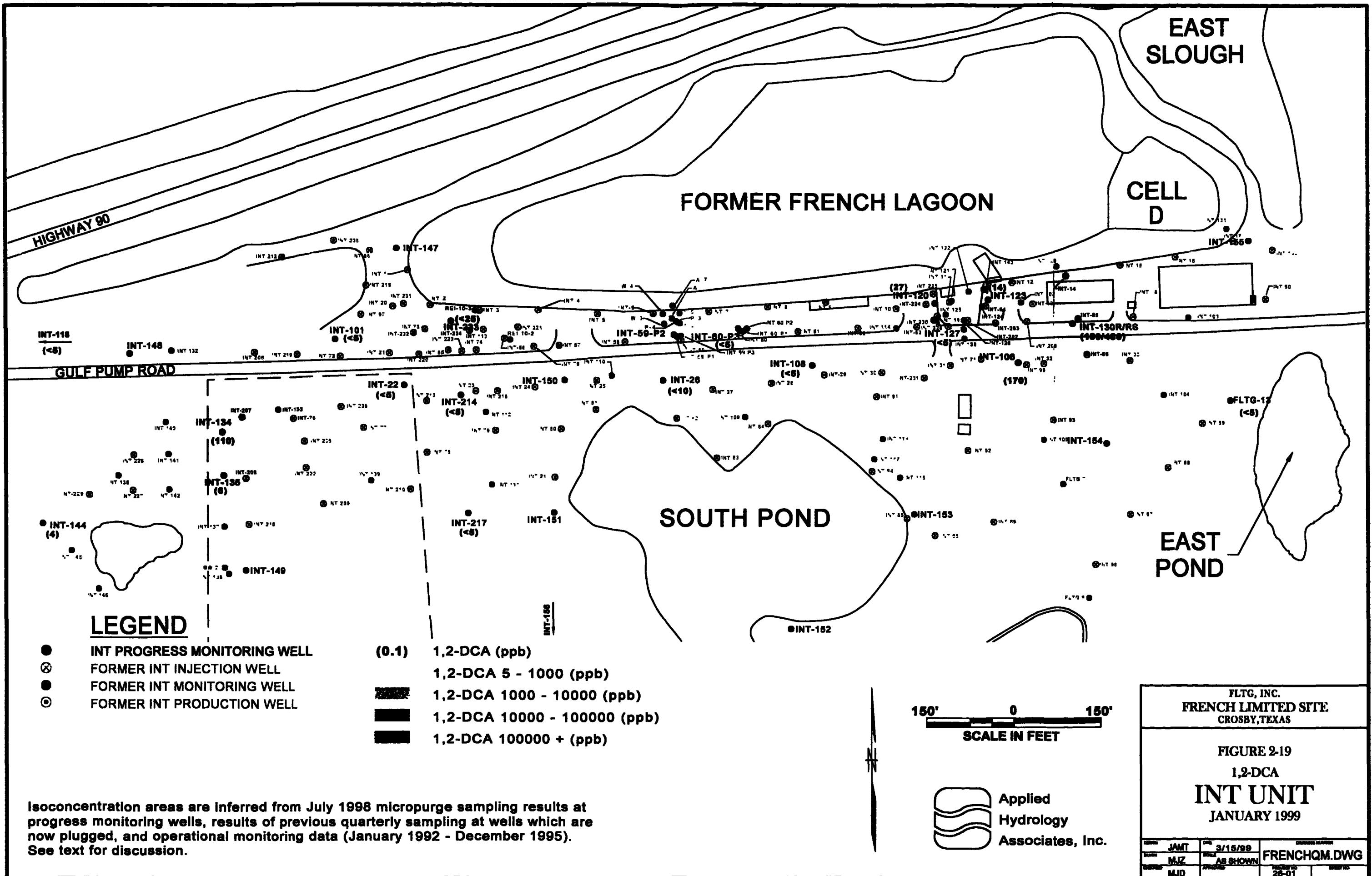


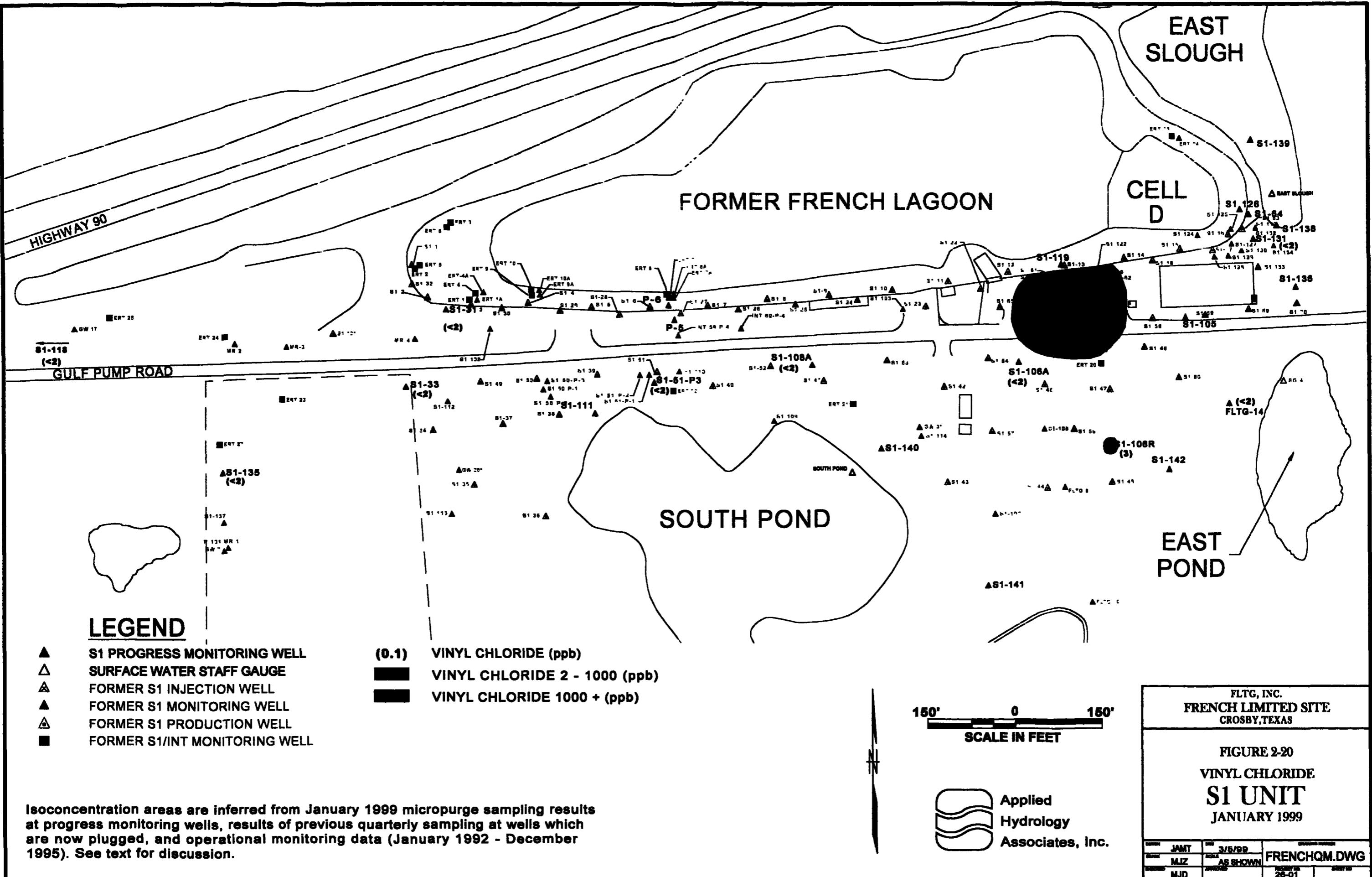


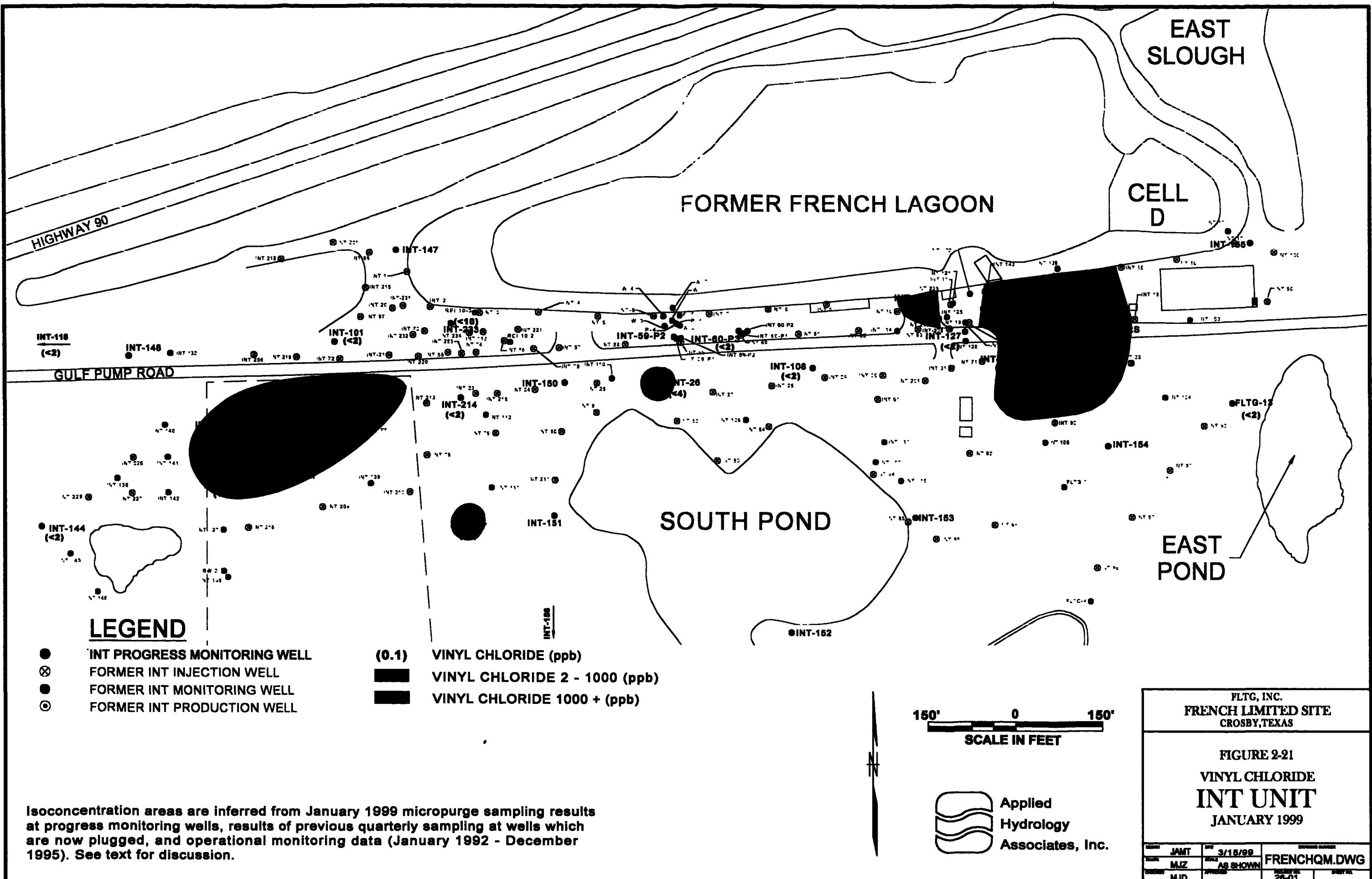


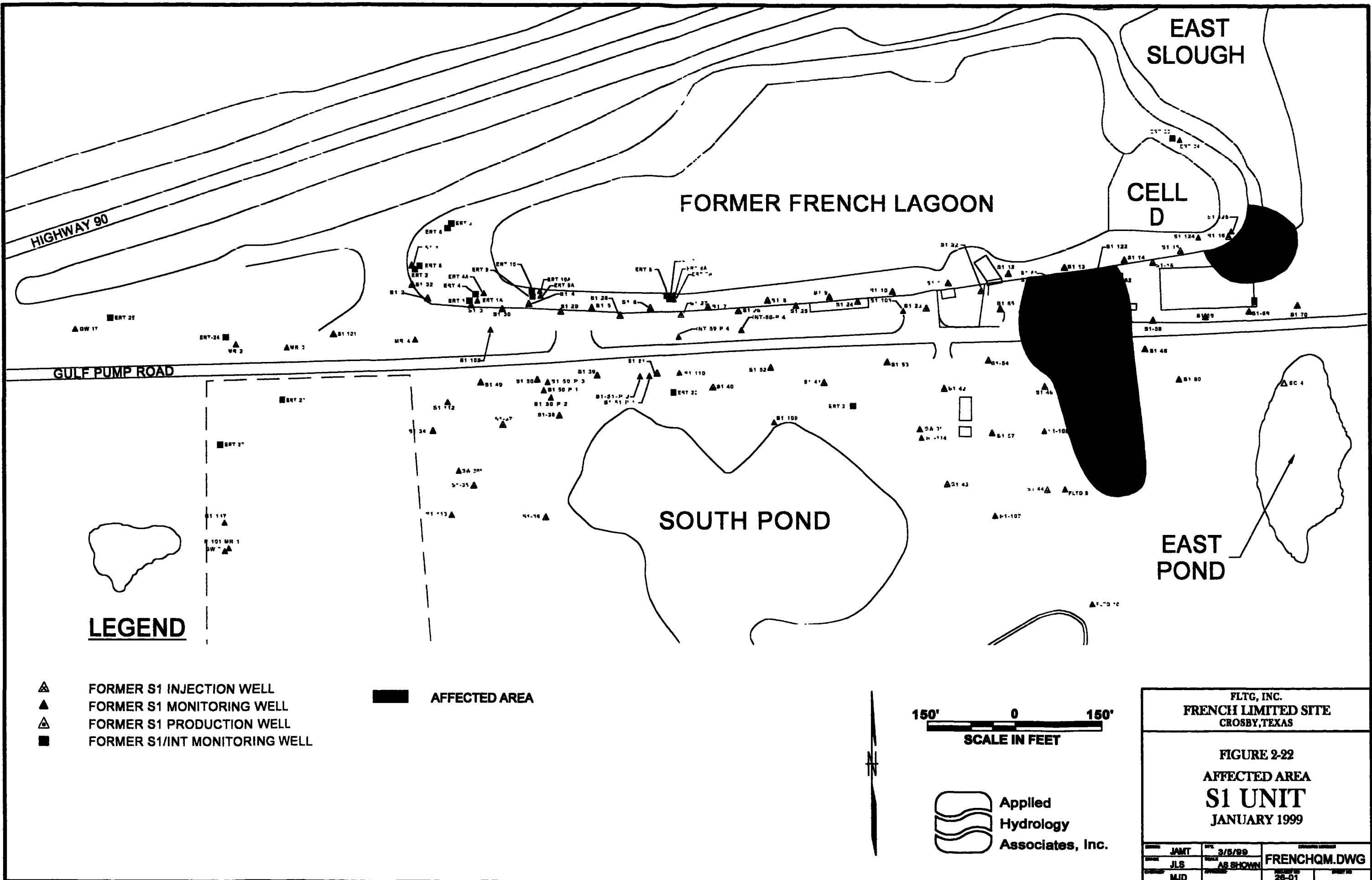


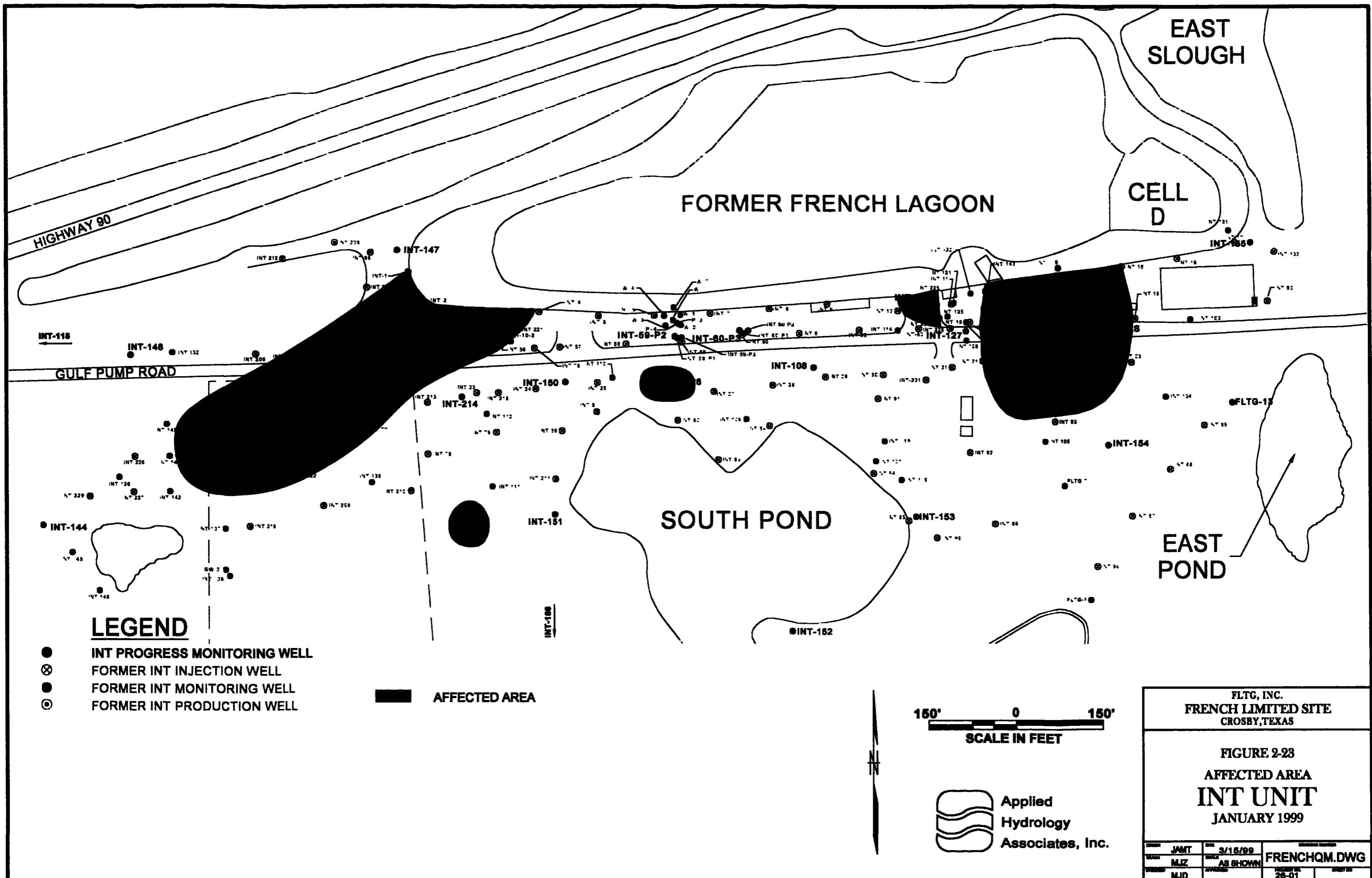












**APPENDIX A**

**January 1999 groundwater sampling results and QA/QC summary**



TO : Dick Sloan  
FROM : Rob Jaros  
CC : Jim Thomson  
Rick Reinke  
DATE : March 1, 1999  
RE : French Ltd. Project - Semi-annual Groundwater Monitoring

Attached are the analytical results for the January 1999 semi-annual groundwater monitoring event using the 'hybrid' well purge method as described in Ron Jansen's memo dated July 6<sup>th</sup>, 1998(see Attachment C).

### Analytical QA/QC Summary

#### 1.0 Sampling Summary

A total of thirty-three(33) groundwater monitoring wells were collected on January 20, 21, 22, 25 27, 28 and 29, 1999. All samples for volatile organic compounds by method 8240 were delivered to Remedial Operations Group, Inc. All other chemistries on the thirty-three(33) monitoring well samples were performed by American Analytical and Technical Services - Baton Rouge. All samples were delivered to their respective labs under properly executed chain-of-custody documents. A sample collection summary is presented in Table 1. Table 2 lists the field duplicate QC samples with complete precision reports in Attachment B. A description of the requested analyses are presented in Table 3.

Sample #	ARCoC#	Sample Name	Date Coll'd	Parameter Group	Lab Abbreviation
FL 01245	0062	FLTG-013	1/20/99	TOC & Nutrients	AATS-BR
FL 01246	0062	FLTG-014	1/20/99	TOC & Nutrients	AATS-BR
FL 01247	0062	INT-060-P-3	1/20/99	TOC & Nutrients	AATS-BR
FL 01248	0062	INT-108	1/20/99	TOC & Nutrients	AATS-BR
FL 01249	0062	INT-118	1/20/99	Nutrient, Met & TOC	AATS-BR
FL 01250	0064	INT-135	1/20/99	Nutrient, Met & TOC	AATS-BR
FL 01251	0063	FLTG-013	1/20/99	VOA Only	ROGI
FL 01252	0063	FLTG-014	1/20/99	VOA Only	ROGI
FL 01253	0063	INT-060-P-3	1/20/99	VOA Only	ROGI
FL 01254	0063	INT-108	1/20/99	VOA Only	ROGI
FL 01255	0063	INT-118	1/20/99	VOA Only	ROGI
FL 01256	0063	INT-135	1/21/99	VOA Only	ROGI
FL 01257	0064	INT-144	1/21/99	Nutrient, Met & TOC	AATS-BR
FL 01258	0064	INT-214	1/21/99	TOC & Nutrients	AATS-BR
FL 01259	0064	S1-031	1/21/99	Nutrient, Met & TOC	AATS-BR
FL 01260	0064	S1-033	1/21/99	Nutrient, Met & TOC	AATS-BR
FL 01261	0064	S1-051-P-3	1/21/99	TOC & Nutrients	AATS-BR
FL 01262	0064	S1-106A	1/21/99	TOC & Nutrients	AATS-BR
FL 01263	0064	S1-108A	1/21/99	TOC & Nutrients	AATS-BR
FL 01264	0063	INT-144	1/21/99	VOA Only	ROGI
FL 01265	0063	INT-214	1/21/99	VOA Only	ROGI
FL 01266	0063	S1-031	1/21/99	VOA Only	ROGI
FL 01267	0063	S1-033	1/21/99	VOA Only	ROGI
FL 01268	0063	S1-051-P-3	1/21/99	VOA Only	ROGI
FL 01269	0063	S1-106A	1/21/99	VOA Only	ROGI



Sample #	ARC/Cat	Sample Name	Date Collected	Parameter Group	Lab Abbreviation
FL 01270	0063	S1-108A	1/21/99	VOA Only	ROGI
FL 01271	0063	S1-121	1/22/99	VOA Only	ROGI
FL 01272	0063	S1-121D	1/22/99	VOA Only	ROGI
FL 01273	0063	INT-022	1/22/99	VOA Only	ROGI
FL 01274	0063	INT-022 MSD	1/22/99	VOA Only	ROGI
FL 01275	0063	S1-123	1/22/99	VOA Only	ROGI
FL 01276	0063	S1-123 MSD	1/22/99	VOA Only	ROGI
FL 01277	0063	S1-106R	1/22/99	VOA Only	ROGI
FL 01278	0063	S1-131	1/22/99	VOA Only	ROGI
FL 01279	0065	S1-121	1/22/99	TOC & Nutrients	AATS-BR
FL 01280	0065	S1-121 D	1/22/99	TOC & Nutrients	AATS-BR
FL 01281	0065	INT-022	1/22/99	TOC & Nutrients	AATS-BR
FL 01282	0065	INT-022 MSD	1/22/99	TOC & Nutrients	AATS-BR
FL 01283	0065	S1-123	1/22/99	TOC & Nutrients	AATS-BR
FL 01284	0065	S1-123 MSD	1/22/99	TOC & Nutrients	AATS-BR
FL 01285	0065	S1-106R	1/22/99	TOC & Nutrients	AATS-BR
FL 01286	0065	S1-131	1/22/99	TOC & Nutrients	AATS-BR
FL 01287	0065	S1-111	1/22/99	Metals Only	AATS-BR
FL 01288	0066	S1-118	1/25/99	Nutrient, Met & TOC	AATS-BR
FL 01289	0066	S1-135	1/25/99	Nutrient, Met & TOC	AATS-BR
FL 01290	0066	INT-059-P-2	1/25/99	Metals Only	AATS-BR
FL 01291	0066	INT-101	1/25/99	Nutrient, Met & TOC	AATS-BR
FL 01292	0069	INT-120	1/25/99	TOC & Nutrients	AATS-BR
FL 01293	0067	S1-118	1/25/99	VOA Only	ROGI
FL 01294	0067	S1-135	1/25/99	VOA Only	ROGI
FL 01295	0067	INT-101	1/25/99	VOA Only	ROGI
FL 01296	0068	INT-120	1/25/99	VOA Only	ROGI
FL 01297	0068	INT-217	1/27/99	VOA Only	ROGI
FL 01298	0068	INT-106	1/27/99	VOA Only	ROGI
FL 01299	0068	INT-026	1/27/99	VOA Only	ROGI
FL 01300	0069	INT-217	1/27/99	TOC & Nutrients	AATS-BR
FL 01301	0069	INT-106	1/27/99	TOC & Nutrients	AATS-BR
FL 01302	0069	INT-026	1/27/99	TOC & Nutrients	AATS-BR
FL 01303	0070	INT-127	1/28/99	TOC & Nutrients	AATS-BR
FL 01304	0070	INT-127D	1/28/99	TOC & Nutrients	AATS-BR
FL 01305	0070	INT-130RS	1/28/99	TOC & Nutrients	AATS-BR
FL 01306	0070	INT-123	1/28/99	TOC & Nutrients	AATS-BR
FL 01307	0070	INT-134	1/28/99	TOC & Nutrients	AATS-BR
FL 01308	0070	INT-134D	1/28/99	TOC & Nutrients	AATS-BR
FL 01309	0071	INT-130R	1/29/99	TOC & Nutrients	AATS-BR
FL 01310	0071	INT-233	1/29/99	TOC & Nutrients	AATS-BR
FL 01311	0071	INT-233MSD	1/29/99	TOC & Nutrients	AATS-BR
FL 01312	0072	INT-127	1/28/99	VOA Only	ROGI
FL 01313	0072	INT-127D	1/28/99	VOA Only	ROGI
FL 01314	0072	INT-130RS	1/28/99	VOA Only	ROGI
FL 01315	0072	INT-123	1/28/99	VOA Only	ROGI
FL 01316	0072	INT-134	1/28/99	VOA Only	ROGI
FL 01317	0072	INT-134D	1/28/99	VOA Only	ROGI



Sample ID	Sample Type	Sample Name	Date Collected	Precipitation Group	Lab Abbreviation
FL 01318	0072	INT-130R	1/29/99	VOA Only	ROGI
FL 01319	0072	INT-233	1/29/99	VOA Only	ROGI
FL 01320	0072	INT-233MSD	1/29/99	VOA Only	ROGI

D suffix on well name indicates field duplicate  
 MSD suffix on well name indicates MS/MSD QC set

**Table 2**  
**Quality Control / Quality Assurance Sample Summary**

Sample Name	QC Type	Date Collected	Parameters
S1-121	FIELD DUP	01/22/98	VOA, TOC & Nutrients
INT-127	FIELD DUP	01/28/98	VOA, TOC & Nutrients
INT-134	FIELD DUP	01/28/98	VOA, TOC & Nutrients

**Table 3**  
**Summary of Requested Analyses**

Parameter	Analysis Description	Method
VOA	Volatile Organics	SW846 - 8240
Metals / Met	Arsenic Chromium Lead	EPA 200.7 / SW 6010 EPA 200.7 / SW 6010 EPA 200.7 / SW 6010
TOC	Total Organic Carbon	EPA 415.1
Nutrients	Potassium Ammonia as N Nitrate as N Orthophosphate (P)	EPA 200.7 / SW 6010 EPA 350.3 EPA 300.0 EPA 365.2

### 1.1 Analytical Data Validation

All analytical data was validated manually for these samples. Table 4 outlines the QC checks made on this data as applicable to the analytical method. All analytical data met QA/QC requirements with the exception of those listed in Table 5. Field duplicate precision summaries are presented in Attachment B.

**Table 4**  
**QA/QC Validation Check Summary**

Validation Check
Holding Time - Method stated time between date sampled and date of extraction or analysis.
Method Sequence - Method stated sequence of analyses for instrument calibration and duration of sample analysis time after compliant calibration.
Surrogate Recovery - Surrogate compounds are added to the analysis procedure at a known concentration to verify method effectiveness. Surrogate recoveries are method specific ranges used to qualify analytical results.
Method Blank Cleanliness - Laboratory prepared sample to verify sampling and analytical procedures in a clean matrix



Validation Check
Laboratory Control Spike Recovery and Precision Check - Lab grade blank material spiked with analytes of interest. To verify analytical accuracy in a clean matrix.
Field Duplicate Precision - Checks precision (reproducibility) of sampling techniques and analytical procedures.
MS/MSD Recovery & Precision Data - Checks sampling, preparation and analysis accuracy and precision

**Table 5**  
**QC Exception Summary - January 1999 Event**

Problem	Comment
Benzene recovery in the matrix spike sample INT-233 (FL01319MS) was reported at 72% - outside the QC range of 80-120%. The recovery of 1,1-dichloroethene in the same analysis was reported at 124%.	The amount of benzene found in the native sample (730ppb) interfered with the recovery of benzene. The precision data for all compounds in this MS/MSD set were within QC limits. No corrective action required.
Project required detection limits were exceeded for vinyl chloride and 1,2-dichloroethane on samples FL01299 (INT-026) and FL01319(INT-233). The detection limits reported for both samples are 4ppb for vinyl chloride and 10ppb for 1,2-dichloroethane.	In both cases, benzene was the compound of highest concentration and the dilutions performed were based on its amount. However, the amount was not to the degree that these detection limit requirements could not have been met. All efforts will be made to ensure the lab meets these requirements in future sampling events.

### 1.2 Submissions

All samples were analyzed using appropriate methods and analysis sequences for the requested parameters. There were no QC issues with respect to holding times, calibration or (where applicable) internal standard or surrogate compound responses. All laboratory control samples reported results within acceptance limits. All field duplicate samples were readily reproducible for all parameters requested. All samples met project QC criteria except for those listed in Tables 5. The QC issues presented in Section 1.1 do not adversely affect the data for its intended use.

Analytical data summaries are presented in Attachment A for all samples.

### 1.3 Data Evaluation

All analytical data was summarized and submitted to project consultants and management for review. All analytical data reports submitted by the laboratory were examined for completeness and validated prior to entering the data into the project database. Complete analytical packages from the lab are available for review upon request.



**Attachment A**

**French Ltd. Project**

**Historical Analytical Summaries for Compliance Wells**

**(through January '99)**

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
FLTG-013

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L		
4/9/92	FL 00597													11	< 10	7	4	< 10		
7/15/92	FL 00598													< 5	< 10	< 5	< 5	< 10		
9/29/92	FL 00599													< 5	5	7	< 5	< 10		
12/14/92	FL 00600													< 5	< 10	3	3	< 10		
12/29/93	FL 00601													< 0.8	< 6	< 0.3	< 0.5	< 1.2		
12/21/94	FL 00602	800	2.8	7.82	21				8.1	0.93	< 0.1	< 2	< 2	< 0.8	< 6	< 0.3	< 0.5	< 1.2		
1/16/96	FL 00604	300	1.8	7.4	21				< 5	1.13	< 0.1	0.41	< 0.1	< 0.8	< 6	< 0.3	< 0.5	< 1.2		
4/12/96	FL 00605	350	1.8	7.44	21				4.4	1.06	< 0.1	< 0.2	< 0.1	< 0.8	< 6	< 0.3	< 0.5	< 1.2		
7/22/96	FL 00607	345	0.1	7.01	22				< 1	1.1	< 0.1	< 0.05	0.075	< 0.8	< 6	< 0.3	< 0.5	< 1.2		
10/7/96	FL 00608	600	1	6.9	23				3.4	1.12	< 0.1	< 0.2	< 0.1	< 5	< 10	< 5	< 5	< 10		
1/24/97	FL 00609	490	0.3	6.61	20				5.8	0.942	< 0.1	< 0.2	< 0.1	< 5	< 10	J 2	< 5	3		
4/14/97	FL 00708	400	0.4	6.73	20				4.8	0.89	< 0.1	< 0.2	< 0.1	< 5	< 10	< 5	< 5	< 2		
7/14/97	FL 00809	400	0.2	6.75	23				4.6	0.944	< 0.1	< 0.2	< 0.1	< 5	< 10	< 5	< 5	< 2		
10/14/97	FL 01028	500	0.3	7.02	22.8				3.9	1.2	0.11	< 0.2	< 0.1	< 5	< 10	< 5	< 5	< 2		
1/19/98	FL 01068	450	0.6	7.16	19				7.7	1.78	< 0.1	< 0.2	0.1	< 5	< 10	< 5	< 5	< 2		
2/15/98	FL 01125	1000	0.7	7.02	21				5	1	< 0.1	1.5	< 0.1	< 5	< 10	< 5	< 5	< 2		
7/21/98	FL 01175	500	0.2	7.13	23				4.7	1.04	< 0.1	< 0.02	< 0.1		< 5	< 20	< 5	< 10	< 2	
7/21/98	FL 01184																			
1/20/99	FL 01251																			
1/20/99	FL 01245	565	0.8	6.39	21.5				4.4	1.08	< 0.1	< 0.2	0.11		< 5	< 20	< 5	< 10	< 2	

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
FLTG-014

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L			
4/9/92	FL 00610													2	<10	<5	<5	<10			
7/15/92	FL 00611													<5	<10	<5	<5	<10			
9/29/92	FL 00612													<5	<10	6	<5	<10			
12/14/92	FL 00613													<5	<10	2	2	<10			
12/29/93	FL 00614													<0.8	<6	<0.3	<0.5	<1.2			
12/21/94	FL 00615	1000	2.4	7.77	21					8.2	1.82	<0.1	<2	<2	<0.8	<6	<0.3	<0.5	<1.2		
1/16/96	FL 00617	220	1.4	7.15	19					<3	1.3	0.5	<0.2	<0.1	<0.8	<6	<0.3	<0.5	<1.2		
4/12/96	FL 00618	300	1.7	7.03	22					5.9	1.61	0.7	<0.2	<0.1	<0.8	<6	7	3	<1.2		
7/22/96	FL 00620	390	0.1	6.97	22					<1	1.8	0.87	<0.05	0.37	<0.8	<6	<0.3	<0.5	<1.2		
10/7/96	FL 00621	1100	1.4	6.61	24					5.6	1.81	0.6	<0.2	<0.1	<5	<10	<5	<5	<10		
1/24/97	FL 00622	419	0.15	6.81	18					7.8	1.65	0.7	<0.2	0.1	<5	<10	<5	<5	<2		
4/14/97	FL 00709	350	0.4	6.76	20					6.4	1.59	0.6	<0.2	<0.1	<5	<10	<5	<5	<2		
7/14/97	FL 00810	600	0.2	6.53	26					7.5	2.31	1.11	<0.2	<0.1	<5	<10	<5	<5	<2		
10/14/97	FL 01029	450	0.4	6.88	23.7					6.4	1.9	1.43	<0.2	0.1	<5	<10	<5	<5	<2		
1/19/98	FL 01069	350	0.5	7.28	19					8.4	1.8	0.62	<0.2	0.1	<5	<10	<5	<5	<2		
2/15/98	FL 01126	950	0.6	6.99	19					5.9	1.5	0.93	<0.2	<0.1	<5	<10	<5	<5	<2		
7/21/98	FL 01176	400	2.4	7.04	25					5.3	2.11	0.73	<0.02	<0.1		<5	<20	<5	<10	<2	
7/21/98	FL 01185																				
1/20/99	FL 01252																				
1/20/99	FL 01246	554	0.8	6.32	20					5.2	1.42	0.32	<0.2	0.11	<5	<20	<5	<10	<2		

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
INT-022

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
4/4/95	FL 00632								160										
10/2/95	FL 00633	850	4.2	7.09	24				25	83.8	0.8	16.7	<0.2	9	<6	9	<0.5	19	
1/17/96	FL 00634	550	1.8	6.88	23	21	<10	<5	<0.4	31.7	0.8	2	2.6	<0.8	<6	44	3	26	
4/12/96	FL 00635	600	1.6	6.9	21				4.2	33.1	0.4	0.24	<0.1	<0.8	<6	<0.3	<0.5	<1.2	
7/22/96	FL 00637	650	0.2	7.21	22				<1	39	0.13	0.07	0.08	<0.8	<6	<0.3	<0.5	<1.2	
10/7/96	FL 00638	875	0.8	7.01	23				4.1	28.8	0.3	<0.2	<0.1	<5	<10	4	3	<10	
1/24/97	FL 00639	775	0.2	6.81	21				6.5	27.9	0.2	<0.2	<0.1	<5	<10	<5	<5	<2	
4/15/97	FL 00725	650	0.2	6.91	21				4.2	27.2	0.3	<0.2	<0.1	<5	<10	<5	<5	<2	
7/15/97	FL 00827	650	0.2	6.79	23				4.6	24.1	0.4	<0.2	<0.2	<5	<10	<5	<5	<2	
10/14/97	FL 01030	550	0.3	6.69	22.4				5.4	23.9	0.67	<0.2	0.1	<5	<10	<5	<5	<2	
1/20/98	FL 01086	350	0.6	7.51	21				5.2	24.1	0.12	<0.2	0.1	<5	<10	<5	<5	<2	
2/13/98	FL 01113	700	0.6	6.98	21				6	22.3	0.51	<0.2	<0.1	<5	<10	<5	<5	<2	
7/22/98	FL 01192	700	0.2	6.75	24				7.6	22.8	0.37	<0.2	<0.1	<5	<20	<5	<10	<2	
7/22/98	FL 01203																		
1/22/99	FL 01281								8.3	23.5	0.43	0.03	0.1	<5	<20	J1	<10	J2	
1/22/99	FL 01273	838	0.7	6.34	22														

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

Page 1 of 1

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
INT-026

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
4/4/95	FL 00642							107											
1/17/96	FL 00643	800	2.5	6.37	22			<3	926	1.2	4	586	<0.8	<6	180	7	<1.2		
4/12/96	FL 00644	550	1.2	6.95	21			47.3	82.4	1.6	<0.2	37.4	<0.8	<6	98	<0.5	<1.2		
7/22/96	FL 00646	900	0.1	7	24			27.8	78	2	<0.05	35	<0.8	<6	100	<0.5	<1.2		
10/7/96	FL 00647	1000	0.7	6.95	23.5			34.1	43.7	1.5	<0.2	36.3	<5	<10	75	<5	<10		
1/24/97	FL 00648	810	0.2	7.22	20.5			27.5	18.7	0.6	<0.2	9.4	<5	<10	24	<5	<2		
4/16/97	FL 00734	500	0.1	6.97	20			22	15.9	1.4	<0.2	6.9	<5	<10	24	<5	<2		
7/16/97	FL 00836	800	0.1	6.69	22			17.6	11.3	1.2	<0.2	7.1	<5	<10	38	<5	<2		
10/14/97	FL 01031	510	0.2	6.52	22.4			31.8	7.8	1.86	<0.2	5.8	<5	<10	89	<5	<2		
1/21/98	FL 01095	285	0.4	7.27	21			11.9	5.22	0.27	<0.2	2.6	<5	<10	5	<5	<2		
2/17/98	FL 01128	1000	0.7	6.72	21			20.7	6	0.85	<0.2	3.8	<5	<10	49	<5	<2		
7/23/98	FL 01221							89.4	4.08	<0.1	0.4	<0.1			<5	<20	D 280	J 3	
7/23/98	FL 01214	1000	0.2	6.35	24												3		
1/27/99	FL 01302							82.5	4.22	0.5	<0.2	<0.1							
1/27/99	FL 01299	1039	0.7	6.36	22										<10	<40	380	J 3	<4

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
INT-059-P-2

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
6/25/92	FL 00655													3	62	26	12	< 10	
9/27/92	FL 00656													32	3900	580	250	56	
12/11/92	FL 00657													< 5000	100000	< 5000	< 5000	< 10000	
12/29/93	FL 00658													12	9713	443	97	24	
12/21/94	FL 00660								18.4										
12/21/94	FL 00659					47.3	< 0.7							0.42	< 2	2.6	< 0.8	< 6	21 < 0.5 < 1.2
1/16/96	FL 00661	230	0.7	6.95	23	68	< 10	< 5	< 5										
4/12/96	FL 00002	300	1.3	7.03	21	50	< 10	< 5											
7/22/96	FL 00004	390	6.606	6.86	24	32	< 10	< 3						2.6					
10/7/96	FL 00005	975	0.8	6.66	25	41	< 10	< 5											
1/24/97	FL 00006	490	0.1	6.73	21	48	< 10	< 5								< 5	< 10	J 3 < 5 < 2	
4/15/97	FL 00726	300	0.2	6.88	21	43	< 10	< 5											
7/15/97	FL 00828	280	0.2	6.74	24	45	< 10	< 5											
10/15/97	FL 01047	320	0.7	6.81	23.9	44	< 10	< 5											
1/20/98	FL 01087	370	0.3	7.02	22	46	< 10	< 5											
2/17/98	FL 01131	900	1.3	6.69	23	60	< 10	< 5											
7/22/98	FL 01244	500	15	6.99	25	51	< 10	< 5											
1/25/99	FL 01290	501	2.2	6.32	24	73	< 10	< 5											

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

**QUARTERLY GROUNDWATER MONITORING**  
French Limited, January 1999

**Well Name**  
**INT-060-P-3**

**French Limited Project**  
**FLTG, Inc.**

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	O-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
1/18/96	FL 00009	500	15	6.77	22				<3	37.9	<0.1	41.6	0.2	<0.8	<6	<0.3	<0.5	<1.2	
4/12/96	FL 00010	850	15	7.02	21				2.2	118	0.1	112	<0.1	<0.8	<6	25	11	<1.2	
7/22/96	FL 00012	1380	15	7.14	24				<1	120	<0.1	100	0.065	<0.8	<6	<0.3	<0.5	<1.2	
10/7/96	FL 00013	1425	13	7.06	24.5				1.4	124	<0.1	91	<0.1	<5	<10	<5	<5	<10	
1/24/97	FL 00014	1150	9.7	7.17	21				4	85.6	<0.1	74.4	<0.1	<5	<10	<5	<5	<2	
4/14/97	FL 00710	900	9.8	7.11	21				3.3	59	<0.1	50.5	<0.1	<5	<10	<5	<5	<2	
7/14/97	FL 00811	1280	15	7.42	23				1.8	95.5	<0.1	91.2	5.1	<5	<10	<5	<5	<2	
10/15/97	FL 01048	610	3.4	7.23	23.8				4.1	46.8	<0.1	32.7	<0.1	<5	<10	<5	<5	<2	
1/19/98	FL 01070	750	2.8	7.59	22				4	60	<0.1	45	0.1	<5	<10	<5	<5	<2	
2/15/98	FL 01123	1000	5.5	7.17	23				2.6	81.1	<0.1	70.5	<0.1	<5	<10	<5	<5	<2	
7/22/98	FL 01204													<5	<20	<5	<10	<2	
7/22/98	FL 01193	1200	2.8	7.09	24				1.2	106	<0.1	105	<0.1						
1/20/99	FL 01253													<5	<20	<5	<10	<2	
1/20/99	FL 01247	1287	4.7	6.67	23				2.4	45	<0.1	61	0.19						

Number in parentheses is cleanup criteria

**CONDU** = Specific Conductivity (NC)  
**TEMP** = Temperature (NC)  
**PB** = Lead (15)  
**NH3N** = Ammonia-N (NC)  
**12DCA** = 1,2-Dichloroethane (5)  
**TOL** = Toluene (1000)

**DO** = Dissolved Oxygen (NC)  
**AS** = Arsenic (50)  
**TOC** = Total Organic Carbon (NC)  
**NO3N** = Nitrate-N (NC)  
**ACET** = Acetone (3500)  
**VINCHL** = Vinyl chloride (2)

**FLDPH** = Field pH (NC)  
**CR** = Chromium (100)  
**K** = Potassium (NC)  
**O-PO4-P** = Orthophosphate-P (NC)  
**BENZ** = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

## QUARTERLY GROUNDWATER MONITORING

French Limited, January 1999

Well Name  
INT-101French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L		
12/2/91	FL 00017	3000	2.2	7.1	30.2	80	<20	<25		3.5			7.5	1400	640	1800	<500	2300		
6/25/92	FL 00018								263		0.42	<0.05	<0.01	1100	<100	2500	65	1300		
9/27/92	FL 00019									3.7	<0.1	<0.02	1.8	530	<250	1200	<120	680		
12/11/92	FL 00020	2500	2.8	6.97	20.06	46	<4	<30	251	16.3	0.45	<0.05	0.01	<250	<500	2100	<250	440		
3/25/93	FL 00021	1900	2.7	11.38	20.8				208		0.2	<0.05	0.03	1400	<100	1100	57	270		
6/22/93	FL 00022	2300	4.7	6.94	23.1				229	1.24	0.25	<0.05	0.04	110	<100	1100	<50	220		
9/10/93	FL 00023								173	2.02	0.25	<0.05	0.5	622	<10	1233	35	843		
12/29/93	FL 00024					103	<4	<41	104	<1120		<0.05	0.11	26	<30	497	25	<6		
12/29/93	FL 00025	1000	2.9	6.76	22															
3/22/94	FL 00026	1050	1	6.82	22															
3/22/94	FL 00027																			
6/7/94	FL 00028	1200	2.2	6.78	22															
9/5/94	FL 00029	1300	1.6		24															
12/21/94	FL 00030	1550	2.8	6.74	21	130	<2.6	<2.5												
12/21/94	FL 00031																			
3/12/95	FL 00033																			
3/12/95	FL 00032	1000	0.1	6.75	21															
4/4/95	FL 00035																			
4/4/95	FL 00034	850	0.5	6.85	22				89		1.07	<0.1	<0.2	<0.2						
5/5/95	FL 00036	480	0.3	6.67	23				60		0.97	<0.1	<0.7	<0.7	<4	28	380	<2.5	<6	
6/6/95	FL 00038	1100	0.3	6.74	23															
6/6/95	FL 00037																			
7/5/95	FL 00039	890	0.8	6.76	23				85		1.65	0.1	<0.2	0.3	<1.6	<12	220	<1	<2.4	
8/2/95	FL 00040	700	0.3	6.53	23				86		1.28	<0.1	<0.1	<0.1	<0.8	<6	160	<0.5	<1.2	
9/1/95	FL 00041	850	0.3	6.37	23				112		1.52	<0.1	<0.2	<0.2	<2.664	<19.98	420	<1.665	<3.996	
10/2/95	FL 00042	400	1.7	7.14	24				99		0.7	<0.1	<0.2	<0.2	<0.8	150	300	<0.5	<1.2	

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)

TEMP = Temperature (NC)

PB = Lead ( 15)

NH3N = Ammonia-N (NC)

12DCA = 1,2-Dichloroethane (5)

TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)

AS = Arsenic ( 50)

TOC = Total Organic Carbon (NC)

NO3N = Nitrate-N (NC)

ACET = Acetone ( 3500)

VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)

CR = Chromium ( 100)

K = Potassium (NC)

O-PO4-P = Orthophosphate-P (NC)

BENZ = Benzene (5)

&lt; Less than shown detection limit

J Detected conc. below detection limit

E Conc. exceeded instrument calibration range

B Analyte also found in method blank

D Concentration derived from dilution

NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
INT-101

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L		
11/1/95	FL 00043	530	0.3	6.59	24	-	-	-	92	1.26	<0.1	<0.2	<0.2	<0.8	<6	120	<0.5	<1.2		
12/15/95	FL 00044	500	0.5	6.85	23	115	<10	<5	84	1.39	<0.1	<0.2	<0.1	<2.64	<19.8	218	<1.65	<3.96		
1/22/96	FL 00045	500	1	6.97	23	96	<10	<5	<3	0.694	<0.1	<0.2	<0.1	<0.8	<6	120	<0.5	<1.2		
4/12/96	FL 00046	400	1.4	6.79	21	60	<10	<5	29.4	0.66	<0.1	<0.2	0.48	<0.8	<6	36	<0.5	<1.2		
7/22/96	FL 00048	600	0.03	6.75	22	60	<10	<3	8.8	0.63	<0.1	<0.05	0.64	<0.8	<6	36	<0.5	<1.2		
10/7/96	FL 00049	650	0.9	6.99	23	65	<10	<5	12.5	0.611	<0.1	<0.2	0.2	<5	<10	33	<5	<10		
1/24/97	FL 00050	700	0.4	7.48	21	36	<10	<5	7.4	0.534	<0.1	<0.2	0.2	<5	<10	9	<5	<2		
4/15/97	FL 00730	400	0.5	7.58	-	36	<10	<5	4.2	0.944	<0.1	<0.2	0.2	<5	<10	<5	<5	<2		
7/16/97	FL 00832	400	0.1	6.82	22	48	<10	<5	5.8	0.619	<0.1	<0.2	0.3	<5	<10	11	<5	<2		
10/14/97	FL 01032	420	0.2	7.18	22.6	39	<10	<5	5.5	0.68	<0.1	0.3	0.2	<5	<10	9	<5	<2		
1/21/98	FL 01091	550	0.4	7.58	20	43	<10	<5	3.6	0.796	<0.1	<0.2	0.4	<5	<10	<5	<5	<2		
2/17/98	FL 01132	1050	0.8	7.22	22	59	<10	<5	5.2	0.86	<0.1	0.4	0.3	<5	<10	5	<5	<2		
7/24/98	FL 01229	750	0.3	7.01	23	160	<10	<5	32.6	0.822	<0.1	<0.2	<0.1	-	J 3	<20	57	<10	9	
7/24/98	FL 01237	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1/25/99	FL 01295	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
1/25/99	FL 01291	592	1.9	6.65	23	98	<10	<5	9	0.526	<0.1	<0.02	0.2	<5	<20	7	<10	<2		

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
INT-106

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
12/2/91	FL 00055			7.61		20	<20	<25		2.2		0.09	10	250	27	<10	<10	<20	
12/19/92	FL 00056								145	2.13	<0.1	<0.05	<0.01	<500	6800	<500	<500	<1000	
12/21/92	FL 00057	1300	2.2	6.99	20														
3/24/93	FL 00058	1350	3.2	11.13	21.9				91	3.24	0.24	<0.05	<0.01	1900	<500	180	<250	<500	
6/24/93	FL 00059								21					290	170	24	3	10	
6/25/93	FL 00060	600	5.2	6.13	24.1														
9/15/93	FL 00061	900	2.2		26.2				25	11.4	2.2	0.21	0.02	415	<10	37	5	171	
12/29/93	FL 00062	900	15	7.45	21.2				<1	1.89	0.11	68	0.09	91	<6	<0.3	<0.5	11	
3/22/94	FL 00063	800	15	7.38	22									3	<6	<0.3	<0.5	<1.2	
6/7/94	FL 00064	800	15	7.16	22									330	<60	<3	<5	<12	
12/21/94	FL 00065	800	15	7.6	24									3	<6	<0.3	<0.5	<1.2	
12/21/94	FL 00066								3.1	13	<0.1	24.7	<2						
3/12/95	FL 00068									3.83	<0.1	3.1	<0.2						
3/12/95	FL 00067	1100	0.7	6.78	23									200	<15	13	<1.25	24	
4/4/95	FL 00070									3.38	<0.1	1.4	<0.2						
4/4/95	FL 00069	1100	0	6.75	23									220	<15	20	<1.25	23	
5/5/95	FL 00071	1250	0.4	6.67	24					34	3.3	<0.1	2.3	<0.7	140	<6	23	<0.5	17
6/6/95	FL 00072	1050	0.5	6.74	23					47					140	<6	31	<0.5	20
7/5/95	FL 00073	1060	0.8	6.89	23					3.56	<0.1	1.5	<0.2						
8/2/95	FL 00074	950	0.3	6.56	23					51	3.02	<0.1	<0.1	<0.1	200	<6	33	<0.5	23
9/1/95	FL 00075	800	0.3	6.57	23					51	3.01	<0.1	0.7	<0.1	110	<6	22	<0.5	23
10/2/95	FL 00076	600	0.3	6.45	23					44	3.37	<0.1	0.5	<0.2	60	<6	14	<0.5	16
11/1/95	FL 00077	525	0.3	6.83	23					102	2.8	<0.1	0.8	<0.2	52	43	9	<0.5	20
12/15/95	FL 00078	550	0.4	7.03	23						2.26	<0.1	2.3	<0.2	37	<6	6	<0.5	8
1/17/96	FL 00079	550	0.4	6.93	23						3.12	<0.1	13.4	<0.1	43	<6	<0.3	<0.5	9
									<1.2	2.66	<0.1	3	<0.1	22	<6	<0.3	<0.5	<1.2	

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
INT-106

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L			
4/12/96	FL 00080	600	1.4	7.1	21				22.2	2.51	<0.1	<0.2	<0.1	63	<6	6	<0.5	<1.2			
7/22/96	FL 00082	900	0.1	7.16	22				10.7	2.4	0.11	<0.05	0.09	54	<6	4	<0.5	<1.2			
10/7/96	FL 00083	1050	0.6	7.35	24				23.6	1.71	0.1	<0.2	<0.1	30	<10	10	<5	<10			
1/24/97	FL 00084	1050	0.2	6.97	21				27.1	1.9	<0.1	<0.2	<0.1	<5	<10	5	<5	<2			
4/15/97	FL 00733	650	0.2	6.99	21				11.9	2.48	<0.1	<0.2	<0.1	<5	<10	<5	<5	<2			
7/16/97	FL 00835	1250	0.2	7.4	23				5.6	2	<0.1	<0.2	<0.2	<5	<10	<5	<5	<2			
10/15/97	FL 01049	670	0.4	6.9	22.7				17.2	2	0.23	<0.2	<0.1	J 4	<10	J 3	<5	5			
1/21/98	FL 01094	220	0.6	7.62	21				10.4	1.93	<0.1	<0.2	0.1	<5	<10	<5	<5	<2			
2/17/98	FL 01130	1000	0.4	7.2	21				8.6	2.3	<0.1	0.7	0.1	5	<10	<5	<5	<2			
7/23/98	FL 01215	700	0.2	6.48	24				19.6	2.03	<0.1	0.6	<0.1			30	<20	J 4	<10	8	
1/27/99	FL 01301								14.2	2.36	0.1	7.5	<0.1								
1/27/99	FL 01298	868	1	6.55	23									170	<20	10	<10	69			

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
INT-108

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
12/2/91	FL 00087	3400	1.8	6.63	18.4	100	<20	<25		36		<0.02	86	120	21000	700	150	<50	
12/19/92	FL 00088	2300	2.2	7	22.9				343	30.4	<0.1	<0.05	0.06	<50	<100	1400	310	<100	
3/24/93	FL 00089	2150	2.2	7.35	22.2				344	46.2	3.2	<0.05	1.3	<50	<100	790	120	<100	
6/24/93	FL 00090								128					<25	<50	380	20	<50	
6/26/93	FL 00091	1360	1.8	7.17	25.1				29	31.6	9.5	<0.05	11	<5	<10	21	<5	<10	
9/15/93	FL 00092								19	16.3	2.24	<0.05	6	<0.8	<6	29	6	<1.2	
12/29/93	FL 00093																		
3/22/94	FL 00094	392	2.3	7.22	21														
3/22/94	FL 00095													<0.8	<6	<0.3	<0.5	<1.2	
6/7/94	FL 00096	600	0.6	6.37	23									<0.8	<6	<0.3	<0.5	<1.2	
12/21/94	FL 00097	400	2.1	6.97	25									4.4	<0.8	<6	<0.3	<0.5	<1.2
12/21/94	FL 00098								14	8.5	1.1	<2							
5/5/95	FL 00100									22	3.2	<0.2	1.6						
5/5/95	FL 00099	460	1.5	6.58	23									<0.8	<6	<0.3	<0.5	<1.2	
6/6/95	FL 00101	390	1.4	6.59	22														
8/2/95	FL 00102	480	1.5	6.46	25				13	44.1	<0.1	0.5	1.9	25	<6	3	<0.5	<1.2	
9/1/95	FL 00103	320	0.6	6.45	27				5	41.8	0.61	1.8	0.4						
9/1/95	FL 00105																		
9/1/95	FL 00104														7	<6	<0.3	<0.5	<1.2
10/2/95	FL 00106	400	1.2	6.37	23				5.7	41.7	0.3	2.7	0.4	<0.8	<6	<0.3	<0.5	<1.2	
10/2/95	FL 00107																		
11/1/95	FL 00108	420	3	6.49	25				10	33	0.3	<0.2	0.6	<0.8	<6	<0.3	<0.5	<1.2	
12/15/95	FL 00109	410	3.8	6.76	23				7	9.8	1	<0.2	0.27	<0.8	<6	<0.3	<0.5	<1.2	
1/16/96	FL 00110	390	0.6	6.8	23			<0.4		41.4	0.2	4	0.82	<0.8	<6	<0.3	<0.5	<1.2	
4/12/96	FL 00111	450	1.5	7.19	21				5.5	39.3	<0.1	1.2	0.9	<0.8	<6	<0.3	<0.5	<1.2	

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)

TEMP = Temperature (NC)

PB = Lead (15)

NH3N = Ammonia-N (NC)

12DCA = 1,2-Dichloroethane (5)

TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)

AS = Arsenic (50)

TOC = Total Organic Carbon (NC)

NO3N = Nitrate-N (NC)

ACET = Acetone (3500)

VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)

CR = Chromium (100)

K = Potassium (NC)

O-PO4-P = Orthophosphate-P (NC)

BENZ = Benzene (5)

< Less than shown detection limit

J Detected conc. below detection limit

E Conc. exceeded instrument calibration range

B Analyte also found in method blank

D Concentration derived from dilution

NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
INT-108

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
7/22/96	FL 00113	750	0.1	6.99	26			<1	43	0.38	<0.05	1.1	<0.8	<6	<0.3	<0.5	<1.2		
10/7/96	FL 00114	800	0.7	6.66	24.5			4.8	35.4	0.6	<0.2	1.9	<5	<10	<5	<5	<10		
1/24/97	FL 00115	700	0.2	6.78	20			8.1	34	0.9	<0.2	2.3	<5	<10	<5	<5	<2		
4/14/97	FL 00711	600	0.4	6.85	21			4.9	35.5	<0.1	<0.2	1.3	<5	<10	<5	<5	<2		
7/14/97	FL 00812	680	0.2	6.96	24			5.3	33.2	0.46	<0.2	2.1	<5	<10	<5	<5	<2		
10/14/97	FL 01034	650	0.4	6.64	23.9			5.9	39.4	0.88	<0.2	2.3	<5	<10	<5	<5	<2		
1/19/98	FL 01071	650	0.6	7.19	21			5.7	35.1	0.25	0.2	2.5	<5	<10	<5	<5	<2		
2/12/98	FL 01109	700	0.6	6.85	23			5.8	34.7	8.34	<0.2	2.4	10	<10	<5	<5	<2		
7/21/98	FL 01177	675	0.4	6.85	26			8.4	31.4	0.68	<0.02	2.4		<5	<20	<5	<10	<2	
7/21/98	FL 01186																		
1/20/99	FL 01254																		
1/20/99	FL 01248	736	0.7	6.39	23.5				11.6	26.8	0.6	<0.2	2.06		<5	<20	<5	<10	<2

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
INT-118

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L		
5/22/92	FL 00128	-	-	-	-	-	-	-	-	-	-	-	<5	<10	<5	<5	<10	-		
12/17/92	FL 00129	355	3.9	7.01	24.4	-	-	-	1.5	-	-	-	<5	<10	<5	<5	<10	-		
12/29/93	FL 00130	-	-	-	-	-	-	-	4.2	-	-	-	-	-	-	-	-	-		
12/29/93	FL 00131	800	2.5	8.04	22	-	-	-	-	-	-	-	-	4	<6	<0.3	<0.5	<1.2	-	
12/21/94	FL 00133	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	
12/21/94	FL 00132	280	2	8.11	240	<3.9	5.9	<2.5	-	2.62	<0.1	<2	<2	<0.8	<6	<0.3	<0.5	<1.2	-	
12/15/95	FL 00134	210	1.3	8.19	24	-	-	-	2.4	-	-	-	-	<0.8	<6	<0.3	<0.5	<1.2	-	
1/15/96	FL 00135	245	1.1	8.25	24	<10	<10	<5	5	1.17	<0.1	0.2	<0.1	<0.8	<6	<0.3	<0.5	<1.2	-	
4/12/96	FL 00136	400	4.6	8.6	22	<10	<10	<5	<2	3.48	<0.1	371	<0.1	<0.8	<6	<0.3	<0.5	<1.2	-	
7/22/96	FL 00138	300	5.4	9.76	24	<10	<10	<3	<1	4.3	<0.1	0.39	0.026	<0.8	<6	<0.3	2	<1.2	-	
10/7/96	FL 00139	400	1.2	8.56	25	<10	<10	<5	1.4	1.54	<0.1	<0.2	<0.1	<5	<10	<5	<5	<10	-	
1/24/97	FL 00140	310	0.2	8.28	23	<10	<10	<5	2.7	0.942	0.1	<0.2	<0.1	<5	<10	<5	<5	<2	-	
4/14/97	FL 00712	480	4.6	10.48	23	<10	<10	<5	1.1	6.96	<0.1	0.8	<0.1	<5	<10	<5	<5	<2	-	
7/14/97	FL 00813	200	0.2	9.44	24	<10	<10	<5	1.2	4.76	<0.1	0.3	<0.1	<5	<10	<5	<5	<2	-	
10/14/97	FL 01035	280	0.1	8.46	24.9	<10	<10	<5	<1	1.2	<0.1	<0.2	0.1	<5	<10	<5	<5	<2	-	
1/19/98	FL 01072	350	0.7	8.58	23	<10	<10	<5	<1	0.78	<0.1	<0.2	0.1	<5	<10	<5	<5	<2	-	
2/13/98	FL 01116	350	0.7	7.92	24	<10	<10	<5	<1	1	<0.1	6.6	<0.1	<5	<10	<5	<5	<2	-	
7/22/98	FL 01194	300	0.1	7.98	25	<10	<10	<5	<1	1.17	<0.1	<0.2	<0.1	-	<5	<20	<5	<10	<2	-
7/22/98	FL 01205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1/20/99	FL 01255	-	-	-	-	-	-	-	-	-	-	-	<5	<20	<5	<10	<2	-	-	
1/20/99	FL 01249	363	0.8	7.27	24	<10	<10	<5	<1	0.802	<0.1	<0.2	0.13	-	-	-	-	-	-	

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

## QUARTERLY GROUNDWATER MONITORING

French Limited, January 1999

Well Name  
INT-120French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
3/25/93	FL 00142								2660	1.59	<0.1	<0.05	0.05	2900	34000	1200	<2500	6000	
6/22/93	FL 00143								42	<0.934	0.07	<0.05	0.04	630	680	110	20	19	
12/21/94	FL 00145	800	2	6.98	22									10000	<600	<30	<50	<120	
12/21/94	FL 00146										0.15	<2	<2						
3/12/95	FL 00147	600	0.4	6.59	24														
3/12/95	FL 00148																		
4/4/95	FL 00149	700	3.5	6.86	23														
6/6/95	FL 00150	700	15	7.32	24														
6/6/95	FL 00151																		
7/5/95	FL 00152	700	15	7.61	24														
8/2/95	FL 00153		15		23														
9/1/95	FL 00155																		
9/1/95	FL 00154	800	15	7.15	30														
10/2/95	FL 00156	900	15	7.14	25														
11/1/95	FL 00157	825	13.5	7.05	24														
12/15/95	FL 00158	1300	3.8	7.33	23														
1/23/96	FL 00159	900	15	7.18	24														
4/12/96	FL 00160	750	1.6	7.05	22														
7/22/96	FL 00162	1350	0.12	7.86	23														
10/7/96	FL 00163	1350	1.1	7.52	25														
1/24/97	FL 00164	1300	0.2	7.59	21														
4/15/97	FL 00731	1050	0.3	7.25	22														
7/16/97	FL 00833	1050	0.1	8.32	24														
10/15/97	FL 01050	1150	0.2	7.49	25.2														
1/21/98	FL 01092	1100	0.6	7.38	22														

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)

TEMP = Temperature (NC)

PB = Lead (15)

NH3N = Ammonia-N (NC)

12DCA = 1,2-Dichloroethane (5)

TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)

AS = Arsenic (50)

TOC = Total Organic Carbon (NC)

NO3N = Nitrate-N (NC)

ACET = Acetone (3500)

VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)

CR = Chromium (100)

K = Potassium (NC)

O-PO4-P = Orthophosphate-P (NC)

BENZ = Benzene (5)

&lt; Less than shown detection limit

J Detected conc. below detection limit

E Conc. exceeded instrument calibration range

B Analyte also found in method blank

D Concentration derived from dilution

NC = No cleanup criteria

## QUARTERLY GROUNDWATER MONITORING

French Limited, January 1999

Well Name  
INT-120French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	O-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
2/18/98	FL 01141	1200	0.7	7.08	22				9.8	104	0.18	57.5	1.2	420	J 12	J 6	< 12	25	
7/23/98	FL 01216	1350	0.2	6.88	25				2.5	121	< 0.1	62.6	< 0.1	33	< 20	J 3	< 10	14	
1/25/99	FL 01296													27	< 40	J 4	< 20	J 25	
1/25/99	FL 01292	1373	0.8	6.93	21				2.3	94.8	0.2	55.1	0.71						

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
 TEMP = Temperature (NC)  
 PB = Lead (15)  
 NH3N = Ammonia-N (NC)  
 12DCA = 1,2-Dichloroethane (5)  
 TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
 AS = Arsenic (50)  
 TOC = Total Organic Carbon (NC)  
 NO3N = Nitrate-N (NC)  
 ACET = Acetone (3500)  
 VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
 CR = Chromium (100)  
 K = Potassium (NC)  
 O-PO4-P = Orthophosphate-P (NC)  
 BENZ = Benzene (5)

< Less than shown detection limit  
 J Detected conc. below detection limit  
 E Conc. exceeded instrument calibration range  
 B Analyte also found in method blank  
 D Concentration derived from dilution  
 NC = No cleanup criteria

Page 2 of 2

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
INT-123

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L							
7/16/93	FL 00166													10000	1700	<5	11	250							
12/21/94	FL 00167	750	4.8	9.84	20.7					57	0.12	<2	<2	1200	<60	<3	<5	230							
12/21/94	FL 00168									9.1															
3/12/95	FL 00169																								
4/4/95	FL 00170	900	15	9.02	22					25	23.9	0.2	16.1	<0.2	12000	3200	<30	<50	1300						
5/5/95	FL 00391	820	15	8.18	24					7															
5/5/95	FL 00392																								
6/6/95	FL 00393	950	15	8.53	28						44	<0.1	36.5	<0.2	1700	140	<3	<5	260						
7/5/95	FL 00394	700	15	9.25	24						63.1	<0.1	43.1	<0.2	1000	200	<3	<5	100						
8/2/95	FL 00395	700	15	9.11	26						9	64.2	<0.1	39.5	<0.1	920	<60	<3	<5	220					
9/1/95	FL 00397																								
9/1/95	FL 00396	410	15	8.04	25						6	75	<0.1	40.5	<0.1	610	38	12	3	300					
10/2/95	FL 00398	500	15	9.42	24						7	76	<0.1	28.4	<0.2	1200	120	7	<0.5	240					
11/1/95	FL 00399	500	15	8.92	23																				
12/15/95	FL 00400	495	15	7.2	23																				
1/23/96	FL 00401	500	15	8.63	24					<3	73.6	<0.1	25.6	0.74	120	20	<0.3	<0.5	15						
4/12/96	FL 00402	500	6.4	8.2	22						4.2	58.9	<0.1	23.2	0.37	210	<12	<0.6	<1	<2.4					
7/22/96	FL 00404	800	0.79	9.66	23						<1	62	<0.1	21	0.27	270	<6	2	<0.5	3					
10/7/96	FL 00405	900	2	9.61	25							4.2	53.3	0.1	20.1	0.2	300	<10	5	<5	<10				
1/24/97	FL 00406	925	4.6	10.67	23							4.3	54.3	0.1	23.3	0.2	280	<20	28	37	16				
4/16/97	FL 00739	700	8.6	10.61	22								4	51.5	0.2	19.2	<0.1	150	<10	<5	<5	4			
7/16/97	FL 00840	650	15	9.96	24								2.5	60	<0.1	27.3	0.3	110	<10	<5	<5	5			
10/15/97	FL 01051	710	9.4	7.38	25									2.1	69	0.12	27.8	0.1	140	<10	<5	<5	<2		
1/22/98	FL 01099	700	13.6	10.32	21									<1	60.3	<0.1	26.7	0.2	190	<20	<10	<10	<4		
2/19/98	FL 01144	700	12.5	8.32											2.1	70.3	<0.1	28.2	0.3	190	<20	J 5	<10	44	

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
INT-123

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
7/24/98	FL 01230	1000	1	7.65	25				3.6	93.6	< 0.1	53.4	< 0.1						
7/24/98	FL 01238													140	< 20	J 3	< 10	50	
1/28/99	FL 01315																		
1/28/99	FL 01308	543	1	8.13	23				8.5	21.2	0.7	8.4	0.61		14	< 20	J 4	< 10	42

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

Page 2 of 2

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
INT-127

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L		
7/16/93	FL 00409													4700	7000	110	63	530		
12/21/94	FL 00410	850	4.2	7.61	24				14.8	23	<0.1	<2	<2	90	28	<0.3	<0.5	<1.2		
12/21/94	FL 00411																			
3/12/95	FL 00412	900	6.6	7.19	22					1.74	0.39	12.8	<0.2	120	930	200	63	70		
4/4/95	FL 00413	2220	5.4	6.76	23					192	19.5	0.3	2.8	0.4	180	4300	360	110	120	
5/5/95	FL 00414	1500	7.78	6.57	24					175										
5/5/95	FL 00415										20	0.2	8.8	0.4	100	1900	300	84	120	
6/6/95	FL 00416										13.7	<0.1	3.2	<0.2	<26.664	3700	270	75	<39.996	
6/6/95	FL 00417	1800	1.3	6.48	24															
7/5/95	FL 00418	1420	1.4	6.47	24					145	83.6	0.9	34.1	<0.1	12	<6	<0.3	<0.5	28	
8/2/95	FL 00419	1190	3.2	6.53	24					124	8.64	<0.1	5	<0.1	<0.8	740	220	63	20	
9/1/95	FL 00421										10.3	<0.1	<0.2	<0.2						
9/1/95	FL 00420	650	3.1	6.54	24					98						640	140	38	6	
10/2/95	FL 00422	750	0.5	6.45	24					144	6.18	<0.1	3.3	<0.2	<0.8	E 320	120	39	<1.2	
11/1/95	FL 00423	750	0.7	6.93	23					9	3.11	<0.1	0.2	<0.2	<0.8	36	140	34	<1.2	
12/15/95	FL 00424	700	1.7	6.8	23					90	11.1	0.1	24.1	0.18	<0.8	84	140	36	<1.2	
1/22/96	FL 00425	750	2	6.31	24					77.7	6.01	0.1	4	<0.1	<0.8	120	150	37	<1.2	
4/12/96	FL 00426	850	0.8	6.73	22					70	10.9	0.7	47.9	<0.1	<0.8	<6	160	34	<1.2	
7/22/96	FL 00428	1650	0.1	6.68	23					44	14	0.85	<0.05	0.027	<8	<60	170	43	<12	
10/7/96	FL 00429	1750	0.7	6.31	26					78.3	9.17	0.6	<0.2	<0.1	<5	<10	200	50	<10	
1/24/97	FL 00430	1710	0.2	6.73	22					76.6	11	0.4	<0.2	<0.1	<10	<20	180	44	<4	
4/16/97	FL 00736	1200	0.1	6.81	22					54.3	12.9	0.5	<0.2	<0.1	<5	<10	65	13	<2	
7/16/97	FL 00837	1250	0.1	6.77	26					50.1	16.1	0.72	<0.2	<0.2	<5	<10	87	7	<2	
10/15/97	FL 01052	140	0.3	7.92	26.3					10.3	3.3	0.14	<0.2	<0.1	<5	12	<5	<5	<2	
1/22/98	FL 01096	160	0.4	7.2	22					4.5	2.03	<0.1	<0.2	<0.1	<5	<10	<5	<5	<2	

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
INT-127

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	O-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
2/18/98	FL 01136	800	0.6	7.3	22				5.2	2.2	0.22	< 0.2	< 0.1	< 5	< 10	5	< 5	< 2	
7/24/98	FL 01231	1400	15	6.29	28				46	7.84	< 0.1	1.2	< 0.1	< 5	< 20	59	J 3	< 2	
1/28/99	FL 01312													< 5	< 20	J 3	< 10	< 2	
1/28/99	FL 01303	625	4	6.4	23				9.8	4.83	0.4	0.6	< 0.1						

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead ( 15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane ( 5)  
TOL = Toluene ( 1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic ( 50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone ( 3500)  
VINCHL = Vinyl chloride ( 2)

FLDPH = Field pH (NC)  
CR = Chromium ( 100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene ( 5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

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QUARTERLY GROUNDWATER MONITORING

French Limited, January 1999

Well Name  
INT-130R

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L		
7/22/93	FL 00432								3.1					45	< 10	< 5	< 5	< 10		
12/21/94	FL 00433								16.6											
4/12/96	FL 00434	850	1.7	7.43	26				12.7	1.46	< 0.1	30.6	< 0.1	500	< 1000	< 500	< 500	< 1000		
7/22/96	FL 00435	900	1.4	7.47	23				2.9	2.4	0.2	32	< 0.1	450	< 6	27	5	< 1.2		
10/7/96	FL 00436	925	2.1	7.21	25				11.9	1.64	0.2	32	< 0.1	450	< 1000	< 500	< 500	< 1000		
1/24/97	FL 00437	975	0.3	7.55	22				13.5	1.58	0.1	33	< 0.1	260	< 10	49	9	4		
4/16/97	FL 00742	800	0.2	7.8	22				10.9	1.41	0.1	30.6	< 0.1	220	< 10	29	< 5	< 2		
7/16/97	FL 00843	750	0.1	7.36	24				10.2	1.36	0.13	31.9	< 0.2	226	< 10	36	< 5	< 2		
10/15/97	FL 01054	780	0.2	7.44	25.3				12.8	1.9	0.2	34.6	< 0.1	E 460	< 10	52	< 5	8		
1/22/98	FL 01102	790	0.4	7.3	22				7.7	4.14	< 0.1	26.8	0.1	9	< 10	< 5	< 5	< 2		
2/18/98	FL 01139	750	0.5	7.47	23				10.1	1.6	0.14	34.3	< 0.1	J 330	< 1000	< 500	< 500	< 200		
4/15/98	FL 01163									1.24	< 0.1	31.5	< 0.1	J 390	< 1000	< 500	< 500	< 1000		
4/15/98	FL 01162									1.32	< 0.1	34.3	< 0.1	J 350	< 1000	< 500	< 500	< 1000		
7/24/98	FL 01233	850	0.2	7.2	25				20.4	1.1	< 0.1	45	0.1		210	< 40	49	< 20	42	
7/24/98	FL 01241																			
1/29/99	FL 01318														180	< 20	63	< 10	25	
1/29/99	FL 01309	828	1	6.93	23.5				15.7	1.02	< 0.1	29.1	< 0.1							

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
 TEMP = Temperature (NC)  
 PB = Lead (15)  
 NH3N = Ammonia-N (NC)  
 12DCA = 1,2-Dichloroethane (5)  
 TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
 AS = Arsenic (50)  
 TOC = Total Organic Carbon (NC)  
 NO3N = Nitrate-N (NC)  
 ACET = Acetone (3500)  
 VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
 CR = Chromium (100)  
 K = Potassium (NC)  
 O-PO4-P = Orthophosphate-P (NC)  
 BENZ = Benzene (5)

< Less than shown detection limit  
 J Detected conc. below detection limit  
 E Conc. exceeded instrument calibration range  
 B Analyte also found in method blank  
 D Concentration derived from dilution  
 NC = No cleanup criteria

Page 1 of 1

## QUARTERLY GROUNDWATER MONITORING

French Limited, January 1999

Well Name  
INT-130RSFrench Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L			
7/22/93	FL 00438								3.1					45	< 10	< 5	< 5	< 10			
12/21/94	FL 00439								16.6												
4/12/96	FL 00440	900	2.1	7.24	25				17.4	1.82	< 0.1	23.2	< 0.1	1800	< 200	< 100	< 100	180			
7/22/96	FL 00441	1050	0.1	7.16	23				2.9	3.3	< 0.1	20	0.1	290	< 6	21	< 0.5	250			
10/7/96	FL 00442	1100	0.6	6.89	26				15.9	1.89	0.1	17.5	< 0.1	100	< 250	< 120	< 120	180			
1/24/97	FL 00443	1100	0.2	7.21	22				20.8	2.02	< 0.1	14	< 0.1	130	< 10	34	J 1	250			
4/16/97	FL 00738	900	0.2	7.11	21				16.9	1.52	< 0.1	12.5	< 0.1	65	< 10	25	< 5	160			
7/16/97	FL 00839	900	0.2	7.03	24				15.4	1.48	< 0.1	12.7	< 0.2	64	< 10	31	< 5	180			
10/15/97	FL 01055	850	0.1	7.21	25.5				16	1.4	0.13	10	< 0.1	110	< 10	36	< 5	160			
1/22/98	FL 01098	550	0.4	6.98	22				12	1.53	< 0.1	3.6	0.1	7	< 10	< 5	< 5	10			
2/18/98	FL 01142	750	0.5	7.14	23				13.6	1.5	< 0.1	9.3	< 0.1	370	< 250	< 125	< 125	< 50			
4/15/98	FL 01161									1.2	< 0.1	22.7	< 0.1	760	J 230	< 250	< 250	< 500			
4/15/98	FL 01160									1.24	< 0.1	23.8	< 0.1	780	< 500	< 250	< 250	< 500			
7/24/98	FL 01234	750	0.2	6.88	25				17.5	1.22	< 0.1	20.3	0.1			97	< 40	27	< 20	73	
7/24/98	FL 01242																				
1/28/99	FL 01314																				
1/28/99	FL 01305	804	0.8	6.49	24				18.4	1.08	0.2	11.1	< 0.1	480	< 400	J 36	< 200	J 170			

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
 TEMP = Temperature (NC)  
 PB = Lead (15)  
 NH3N = Ammonia-N (NC)  
 12DCA = 1,2-Dichloroethane (5)  
 TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
 AS = Arsenic (50)  
 TOC = Total Organic Carbon (NC)  
 NO3N = Nitrate-N (NC)  
 ACET = Acetone (3500)  
 VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
 CR = Chromium (100)  
 K = Potassium (NC)  
 o-PO4-P = Orthophosphate-P (NC)  
 BENZ = Benzene (5)

< Less than shown detection limit  
 J Detected conc. below detection limit  
 E Conc. exceeded instrument calibration range  
 B Analyte also found in method blank  
 D Concentration derived from dilution  
 NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
INT-134

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
12/29/93	FL 00452		4.2																
6/7/94	FL 00453	750		7.2	23									580	140	47	< 0.5	1600	
12/21/94	FL 00454	550	1.8	7.76	20.2					1.36	< 0.1	< 2	< 2	74	< 15	< 0.75	< 1.25	200	
7/5/95	FL 00455	490	1.8	7.73	23				5	0.982	< 0.1	< 0.1	< 0.1	28	< 6	< 0.3	< 0.5	83	
11/1/95	FL 00456	300	4.6	7.56	23				13	1.35	< 0.1	4.6	< 0.2	91	6	19	< 1.25	270	
12/15/95	FL 00457	370	14.6	6.76	24				8	1.35	< 0.1	21.3	0.19	78	< 15	26	< 1.25	198	
1/18/96	FL 00458	500	0.7	7.42	22				< 1	43.1	0.3	1.8	18	68	< 12	34	< 1	190	
4/12/96	FL 00459	525	1.2	7.42	22				21.6	26.4	0.7	0.45	8.72	67	< 6	27	< 0.5	19	
7/22/96	FL 00461	1000	0.1	7.42	22				15	16	0.53	0.78	4	85	< 6	54	< 0.5	140	
10/7/96	FL 00462	1000	1.2	7.47	23				34.1	7.21	0.6	2	1.2	110	< 10	56	< 5	190	
1/24/97	FL 00463	1100	0.4	7.48	22				44	5.92	0.3	2.9	0.8	96	< 10	44	< 5	130	
4/16/97	FL 00740	800	0.1	7.58	22				29.2	6.37	0.2	1	1.2	64	< 10	19	< 5	81	
7/16/97	FL 00841	800	0.1	7.48	22				31.8	5.37	< 0.1	2.6	1	82	< 10	30	< 5	< 2	
10/14/97	FL 01036	900	0.1	7.46	22.9				39	4.7	0.57	7.1	0.6	110	< 20	33	< 10	200	
1/22/98	FL 01100	1000	0.5	7.34	22				38.9	4.44	< 0.1	9.7	0.6	88	< 10	25	< 5	120	
2/18/98	FL 01143	1050	0.7	6.43	22				48.5	4.1	< 0.1	13.9	0.3	140	< 20	41	< 10	240	
7/23/98	FL 01217	1150	0.2	7.23	24				48.9	2.47	< 0.1	9.2	0.1	140	< 20	40	< 10	E 270	
1/28/99	FL 01316																		
1/28/99	FL 01307	1104	0.8	6.91	22.5				45.3	2.15	< 0.1	16.8	0.16	110	< 20	30	< 10	190	

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead ( 15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane ( 5)  
TOL = Toluene ( 1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic ( 50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone ( 3500)  
VINCHL = Vinyl chloride ( 2)

FLDPH = Field pH (NC)  
CR = Chromium ( 100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene ( 5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

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QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
INT-135

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L		
6/7/94	FL 00465	700	0.4	7.09	2									40	< 12	< 0.6	< 1	160		
12/21/94	FL 00466	650	6.8	7.2	23	< 3.9		7.5	2.6					66	< 12	6	< 1	300		
12/21/94	FL 00467								11											
5/5/95	FL 00468	600	0.2	7.4	23															
6/6/95	FL 00469	475	1.5	7.14	23															
7/5/95	FL 00470	480	1	6.99	23					6	0.999	< 0.1	< 0.1	< 0.1	51	< 6	< 0.3	< 0.5	120	
8/2/95	FL 00471	400	1.4	6.82	23				22											
12/15/95	FL 00472	325	3.8	6.98	23				10	1.15	< 0.1	0.52	< 0.1	29	< 12	< 0.6	< 1	146		
1/17/96	FL 00473	440	1	6.95	23	< 10	< 10	< 5	< 3	1.16	< 0.1	2.2	< 1	15	< 6	< 0.3	< 0.5	66		
4/12/96	FL 00474	500	1	6.88	23	20	< 10	< 5	14.3	1.19	0.1	< 0.2	< 0.1	< 0.8	< 6	< 0.3	< 0.5	< 1.2		
7/22/96	FL 00476	820	0.15	6.76	22	22	< 10	< 3	8.1	1.2	0.11	< 0.05	0.039	< 0.8	< 6	< 0.3	< 0.5	< 1.2		
10/7/96	FL 00477	800	0.8	6.76	24	23	< 10	< 5	11.8	1.14	< 0.1	< 0.2	< 0.1	< 5	< 10	< 5	< 5	< 10		
1/24/97	FL 00478	700	0.2	6.75	22	28	< 10	< 5	16	1.24	< 0.1	< 0.2	< 0.1	< 5	< 10	< 5	< 5	< 2		
4/14/97	FL 00713	600	1.8	6.56	22	12	< 10	8	13.3	1.13	< 0.1	< 0.2	< 0.1	< 5	< 10	< 5	< 5	< 2		
7/14/97	FL 00814	625	0.2	6.74	24	29	< 10	< 5	13.7	1.24	0.14	< 0.2	< 0.1	< 5	< 10	< 5	< 5	< 2		
10/14/97	FL 01037	650	0.8	6.79	23.8	30	< 10	< 5	13.4	1.4	0.17	< 0.2	0.1	< 5	< 10	< 5	< 5	< 2		
1/19/98	FL 01073	825	0.9	7.22	23	30	< 10	< 5	13.7	1.22	< 0.1	< 0.2	0.1	< 5	< 10	< 5	< 5	< 2		
2/12/98	FL 01108	700	0.6	6.78	22	110	< 10	< 5	13.1	8.84	0.26	0.2	< 0.1	6	< 10	< 5	< 5	13		
4/30/98	FL 01169					19	< 10	< 5						5	< 10	< 5	< 5	12		
4/30/98	FL 01168					21	< 10	< 5						< 5	< 10	< 5	< 5	< 10		
7/22/98	FL 01195	675	0.3	6.71	24	17	< 10	< 5	13.3	1.4	0.1	< 0.2	< 0.1	J 5	< 20	< 5	< 10	7		
7/22/98	FL 01206																			
1/20/99	FL 01250	840	0.8	6.19	23	24	< 10	< 5	17.2	1.22	0.19	< 0.02	0.15							
1/21/99	FL 01256													6	< 20	J 2	< 10	J 14		

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

## QUARTERLY GROUNDWATER MONITORING

French Limited, January 1999

Well Name  
INT-144French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
5/4/94	FL 00498			9.04															
5/5/94	FL 00499	440	2		22														
12/21/94	FL 00500	420	3.3	8.68	20														
12/21/94	FL 00501																		
12/21/94	FL 00502																		
3/12/95	FL 00503	390	0.5	8.91	22														
3/12/95	FL 00504																		
4/4/95	FL 00505	425	1.5	9.01	21														
5/5/95	FL 00507																		
5/5/95	FL 00506	400	0.2	8.38	23														
6/6/95	FL 00508	350	2.6	8.75	22														
7/5/95	FL 00509	380	2.3	8.41	22														
8/2/95	FL 00510	350	1	8.23	22														
10/2/95	FL 00511	300	0.3	8.04	23														
11/1/95	FL 00512	270	0.7	8.47	22														
12/15/95	FL 00513	300	0.7	8.8	21														
1/15/96	FL 00514	310	0.7	8.63	23	<10	<10	<5	<3	0.94	0.2	<0.2	<0.1	<0.8	<6	<0.3	<0.5	<1.2	
4/12/96	FL 00515	325	24	8.84	21	20	<10	<5	<2	1.03	<0.1	<0.2	<0.1	<0.8	<6	<0.3	<0.5	<1.2	
7/22/96	FL 00517	370	1.8	9.56	21	17	<10	<3	<1	0.95	<0.1	0.12	0.1	<0.8	<6	<0.3	<0.5	<1.2	
10/7/96	FL 00518	925	2.4	9.11	23.5	17	<10	<5	<1	0.857	<0.1	<0.2	<0.1	<5	<10	<5	<5	<10	
1/24/97	FL 00519	320	1.6	9.37	21	18	<10	<5	1.4	0.889	<0.1	0.2	<0.1	<5	<10	<5	<5	<2	
4/14/97	FL 00714	300	0.5	9.31	21	16	<10	7	1.2	4.57	<0.1	0.7	<0.1	<5	<10	<5	<5	<2	
7/15/97	FL 00815	300	1.2	8.35	22	14	<10	<5	1.2	2.88	<0.1	0.2	0.2	<5	<10	<5	<5	<2	
10/14/97	FL 01038	330	0.2	9.01	22.7	14	<10	<5	<1	1.4	<0.1	<0.2	0.1	<5	<10	<5	<5	3	
1/19/98	FL 01074	400	1.1	9.37	22	16	<10	<5	3.7	2.17	<0.1	<0.2	0.1	<5	<10	<5	<5	<2	
2/13/98	FL 01115	400	0.6	8.75	21	11	<10	<5	<1	1.9	<0.1	<0.2	<0.1	<5	<10	<5	<5	12	

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)

TEMP = Temperature (NC)

PB = Lead (15)

NH3N = Ammonia-N (NC)

12DCA = 1,2-Dichloroethane (5)

TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)

AS = Arsenic (50)

TOC = Total Organic Carbon (NC)

NO3N = Nitrate-N (NC)

ACET = Acetone (3500)

VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)

CR = Chromium (100)

K = Potassium (NC)

O-PO4-P = Orthophosphate-P (NC)

BENZ = Benzene (5)

&lt; Less than shown detection limit

J Detected conc. below detection limit

E Conc. exceeded instrument calibration range

B Analyte also found in method blank

D Concentration derived from dilution

NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
INT-144

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	O-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L		
5/4/98	FL 01173					<10	<10	<5		0.88	<0.1	3.4	<0.1	6	<10	<5	<5	30		
5/4/98	FL 01172					<10	<10	<5		0.81	<0.1	1.9	<0.1	J4	<10	<5	<5	16		
7/22/98	FL 01196	500	124	8.51	22	<10	<10	<5	<1	0.89	<0.1	4.8	0.1		6	<20	<5	<10	9	
7/22/98	FL 01207																			
1/21/99	FL 01264														J4	<20	<5	<10	<2	
1/21/99	FL 01257	483	3.3	7.84	22	10	<10	<5	<1	1.15	<0.1	6.1	0.17							

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

## QUARTERLY GROUNDWATER MONITORING

French Limited, January 1999

Well Name  
INT-214French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	O-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L		
2/5/95	FL 00525													7	<6	19	<0.5	61		
1/18/96	FL 00526	700	1	6.9	23				<0.7	188	0.2	5.5	60.6	<0.8	<6	<0.3	<0.5	<1.2		
4/12/96	FL 00527	575	1.4	7.48	21				3	88.9	<0.1	1.53	5.95	<0.8	<6	<0.3	<0.5	<1.2		
7/22/96	FL 00529	750	0.1	7.2	22				<1	70	<0.1	<0.05	1.7	<0.8	<6	<0.3	<0.5	<1.2		
10/7/96	FL 00530	800	0.7	6.7	23.5				2.5	60.5	0.2	<0.2	1.1	<5	<10	<5	<5	<10		
1/24/97	FL 00531	700	0.1	6.63	21				4.2	63	<0.1	<0.2	0.8	<5	<10	<5	<5	<2		
4/14/97	FL 00715	625	0.5	6.55	21				3.6	63.1	0.9	<0.2	1	<5	<10	<5	<5	<2		
7/15/97	FL 00816	700	0.2	6.53	22.5				4.4	57.4	2.3	<0.2	2.6	<5	<10	<5	<5	<2		
10/14/97	FL 01039	680	0.4	6.3	22.7				4.9	66.4	3.62	<0.2	1.8	<5	<10	<5	<5	<2		
1/19/98	FL 01075	350	0.5	7.15	21				8.8	21.6	0.2	<0.2	0.6	<5	<10	<5	<5	<2		
2/12/98	FL 01107	500	0.4	6.59	22				5.9	38.1	1.43	<0.2	1.2	<5	<10	<5	<5	<2		
7/21/98	FL 01187													<5	<20	<5	<10	<2		
7/21/98	FL 01178	700	0.3	6.55	24				6.3	58.5	1.6	0.1	2.2							
1/21/99	FL 01265													<5	<20	<5	<10	<2		
1/21/99	FL 01258	734	0.8	5.89	23				6.6	55.4	1.46	<0.02	1.16							

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)

TEMP = Temperature (NC)

PB = Lead (15)

NH3N = Ammonia-N (NC)

12DCA = 1,2-Dichloroethane (5)

TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)

AS = Arsenic (50)

TOC = Total Organic Carbon (NC)

NO3N = Nitrate-N (NC)

ACET = Acetone (3500)

VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)

CR = Chromium (100)

K = Potassium (NC)

O-PO4-P = Orthophosphate-P (NC)

BENZ = Benzene (5)

&lt; Less than shown detection limit

J Detected conc. below detection limit

E Conc. exceeded instrument calibration range

B Analyte also found in method blank

D Concentration derived from dilution

NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING

French Limited, January 1999

Well Name  
INT-217

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/l	K mg/l	NH3N mg/l	NO3N mg/l	o-PO4-P mg/l	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L			
4/4/95	FL 00532								75												
10/2/95	FL 00533	1150	4.6	6.67	24				58	1.45	0.6	< 0.2	< 0.2	30	< 6	24	< 0.5	63			
11/1/95	FL 00534	750	0.4	6.53	23				74	1.33	< 0.1	0.8	< 0.2	< 0.8	< 6	14	< 0.5	41			
1/16/96	FL 00535	1000	0.4	6.9	23				< 2.5	385	1.1	0.51	206	< 0.8	< 6	22	< 0.5	51			
4/12/96	FL 00536	805	0.9	6.74	21				56.8	19.6	0.4	< 0.2	5.9	< 0.8	< 6	51	12	8			
7/22/96	FL 00538	1300	0.1	6.69	22				48.4	2.1	0.1	< 0.05	1	< 0.8	< 6	16	< 0.5	9			
10/7/96	FL 00539	1200	1	6.34	23				53.8	1.35	0.1	< 0.2	0.4	< 5	< 10	22	< 5	17			
1/24/97	FL 00540	415	0.2	6.78	21				54.9	0.78	< 0.1	< 0.2	< 0.1	< 5	< 10	18	6	5			
4/15/97	FL 00732	1000	0.2	6.57	21				44.8	0.982	0.1	< 0.2	< 0.1	< 5	< 10	< 5	< 5	6			
7/16/97	FL 00834	1000	0.1	6.44	23				2.4	0.902	< 0.1	< 0.2	< 0.2	< 5	< 10	16	< 5	< 2			
10/15/97	FL 01046	900	0.7	6.57	22.2				46.5	0.72	< 0.1	< 0.2	< 0.1	< 5	< 10	14	< 5	13			
1/21/98	FL 01093	450	0.6	7.12	22				16.7	2.29	< 0.1	10.3	0.3	< 5	< 10	J 2	< 5	< 2			
2/17/98	FL 01129	1000	0.8	6.55	21				39.5	1.7	< 0.1	0.4	< 0.1	< 5	< 10	11	< 5	14			
4/16/98	FL 01166								46	1.61	< 0.1	0.2	0.2	< 5	< 10	14	< 5	32			
4/16/98	FL 01165								45	1.63	< 0.1	< 0.2	0.2	< 5	< 10	13	< 5	22			
7/23/98	FL 01219	1050	0.2	6.41	24				52.9	1.62	< 0.1	1.8	< 0.1			< 5	< 20	13	< 10	41	
7/23/98	FL 01226																				
1/27/99	FL 01300								46.6	1.33	< 0.1	< 0.2	< 0.1								
1/27/99	FL 01297	1046	0.8	6.21	22.5									< 5	< 20	10	< 10	40			

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
 TEMP = Temperature (NC)  
 PB = Lead (15)  
 NH3N = Ammonia-N (NC)  
 12DCA = 1,2-Dichloroethane (5)  
 TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
 AS = Arsenic (50)  
 TOC = Total Organic Carbon (NC)  
 NO3N = Nitrate-N (NC)  
 ACET = Acetone (3500)  
 VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
 CR = Chromium (100)  
 K = Potassium (NC)  
 O-PO4-P = Orthophosphate-P (NC)  
 BENZ = Benzene (5)

< Less than shown detection limit  
 J Detected conc. below detection limit  
 E Conc. exceeded instrument calibration range  
 B Analyte also found in method blank  
 D Concentration derived from dilution  
 NC = No cleanup criteria

## QUARTERLY GROUNDWATER MONITORING

French Limited, January 1999

Well Name  
INT-233

French Limited Project

FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/l	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L		
9/1/95	FL 00543	3000	1.2	6.08	25				3130	4.72	< 0.1	0.3	< 0.2	< 400	76000	2300	< 250	8500		
11/1/95	FL 00544	4000	0.3	6.37	21				2850	2.83	0.4	0.3	< 0.2	< 80	7600	1400	< 50	3000		
1/23/96	FL 00545	750		6.84	24				1800	16.2	2.6	< 0.2	< 0.1	< 160	27000	740	< 100	< 240		
4/12/96	FL 00546	1200	0.7	6.79	22				264	10.5	1.2	< 0.2	5.52	< 2.7	< 19.8	370	140	< 4		
7/22/96	FL 00548	2050	0.12	6.65	22				100	13	7.8	< 0.05	5.5	< 8	< 60	350	100	< 12		
10/7/96	FL 00549	1800	0.7	6.7	25				98.9	9.09	8.7	< 0.2	4.6	< 16	< 33	500	19	< 33		
1/24/97	FL 00550	1500	0.1	7.21	21				59.1	9.63	5.7	< 0.2	3.9	< 5	< 10	< 5	J 2	< 2		
4/16/97	FL 00743	1200	0.1	7.13	22				34.2	9.19	27	< 0.2	0.1	< 5	< 10	100	< 5	< 2		
7/16/97	FL 00844	1200	0.1	6.87	23				50.7	9.38	6.2	4	9.4	< 5	< 10	180	5	4		
10/15/97	FL 01056	1310	0.2	7	24.6				36.1	7.8	5.81	< 0.2	0.1	< 25	< 50	230	< 25	< 10		
1/22/98	FL 01103	1200	0.4	7.67	22				34.2	8.22	3.77	1.8	0.5	< 10	< 20	240	< 10	< 4		
2/18/98	FL 01135	1100	0.4	7	23				25.4	8.1	4.86	< 0.2	0.2	< 10	< 20	240	< 10	< 4		
7/24/98	FL 01235	1800	0.1	6.46	25				235	5.55	< 0.1	4.8	2.8		16	< 40	D 620	80	< 4	
1/29/99	FL 01319													< 25	< 100	730	J 27	< 10		
1/29/99	FL 01310	1032	0.6	6.4	23				208	4.23	2.07	< 0.4	0.68							

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
 TEMP = Temperature (NC)  
 PB = Lead (15)  
 NH3N = Ammonia-N (NC)  
 12DCA = 1,2-Dichloroethane (5)  
 TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
 AS = Arsenic (50)  
 TOC = Total Organic Carbon (NC)  
 NO3N = Nitrate-N (NC)  
 ACET = Acetone (3500)  
 VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
 CR = Chromium (100)  
 K = Potassium (NC)  
 o-PO4-P = Orthophosphate-P (NC)  
 BENZ = Benzene (5)

< Less than shown detection limit  
 J Detected conc. below detection limit  
 E Conc. exceeded instrument calibration range  
 B Analyte also found in method blank  
 D Concentration derived from dilution  
 NC = No cleanup criteria

Page 1 of 1

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
S1-031

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
9/5/94	FL 00180												<0.8	<6	<0.3	<0.5	<1.2		
8/2/95	FL 00181	700	15	6.91	24			15											
1/17/96	FL 00182	600	0.6	7.22	23	<10	13	5	9	144	0.2	26.5	5.48	<0.8	<6	<0.3	<0.5	<1.2	
4/12/96	FL 00183	300	1.5	7.49	21	<10	<10	<5	4.1	93.8	0.6	2.8	1.7	<0.8	<6	<0.3	<0.5	<1.2	
7/22/96	FL 00185	450	0.02	7.4	23	<10	<10	<3	<1	32	0.29	0.16	0.52	<0.8	<6	<0.3	<0.5	<1.2	
10/7/96	FL 00186	1050	0.9	6.84	25.5	<10	<10	<5	11.4	10.9	0.2	<0.2	0.2	<5	<10	<5	<5	<10	
1/24/97	FL 00187	850	0.1	7.06	21	<10	<10	<5	8.8	4.7	0.2	<0.2	<0.1	<5	<10	<5	<5	<2	
4/14/97	FL 00716	525	0.3	7.03	21	<10	<10	<5	6.4	3.87	0.3	0.6	0.1	<5	<10	<5	<5	<2	
7/15/97	FL 00817	650	0.3	7.16	23	12	<10	<5	5.9	27.1	1.09	<0.2	<0.2	<5	<10	<5	<5	<2	
10/15/97	FL 01057	550	0.2	7.06	24.6	<10	<10	<5	5.9	7.2	0.75	<0.2	0.1	<5	<10	<5	<5	<2	
1/19/98	FL 01076	500	0.8	7.55	22	<10	<10	<5	5.3	14	0.38	<0.2	0.2	<5	<10	<5	<5	<2	
2/13/98	FL 01118	700	0.6	7.09	23	23	<10	<5	10.4	51.9	0.88	<0.2	0.1	<5	<10	6	<5	<2	
7/22/98	FL 01197	800	0.2	7.15	25	42	<10	<5	10.4	69.7	0.53	<0.2	<0.1		<5	<20	J4	<10	<2
7/22/98	FL 01208																		
1/21/99	FL 01266																		
1/21/99	FL 01259	804	0.6	6.49	23.5	37	<10	<5	9.1	60.1	0.71	0.06	0.15	<5	<20	J4	<10	<2	

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
S1-033

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
3/22/94	FL 00190												<0.8	<6	<0.3	<0.5	<1.2		
1/16/96	FL 00191	495	0.4	6.48	23	<10	<10	<5	<3	68.1	<0.1	131	1.2	<0.8	<6	<0.3	<0.5	<1.2	
4/12/96	FL 00192	450	1.6	7.23	20	<10	<10	<5	3.5	59.5	<0.1	288	0.6	<0.8	<6	<0.3	<0.5	<1.2	
7/22/96	FL 00194	700	0.16	6.69	22	<10	<10	<3	<1	88	<0.1	0.78	0.49	<0.8	<6	<0.3	<0.5	<1.2	
10/7/96	FL 00195	1150	1.2	6.58	24	13	<10	<5	7.6	65.3	0.2	<0.2	0.4	<5	<10	<5	<5	<10	
1/24/97	FL 00196	510	0.15	6.75	21	<10	<10	<5	9.6	63.4	0.2	<0.2	<0.1	<5	<10	<5	<5	<2	
4/14/97	FL 00717	410	0.2	6.67	20	<10	<10	<5	9.8	56.7	0.5	<0.2	<0.1	<5	<10	<5	<5	<2	
7/15/97	FL 00818	500	0.2	5.97	23	17	<10	<5	10.4	63.4	0.87	<0.2	<0.2	<5	<10	<5	<5	<2	
10/14/97	FL 01040	550	0.5	6.58	23.3	25	<10	<5	11.3	60.7	1.18	<0.2	0.1	<5	<10	<5	<5	<2	
1/19/98	FL 01077	325	0.7	7.01	21	<10	<10	<5	8.6	28.8	<0.1	<0.2	0.1	<5	<10	<5	<5	<2	
2/12/98	FL 01110	500	0.6	6.56	22	17	<10	<5	9.6	53.6	0.75	<0.2	<0.1	<5	<10	<5	<5	<2	
7/22/98	FL 01209													<5	<20	<5	<10	<2	
7/22/98	FL 01198	775	0.3	6.49	24	22	<10	<5	11.2	54.4	0.9	<0.2	<0.1						
1/21/99	FL 01267												<5	<20	<5	<10	<2		
1/21/99	FL 01260	964	0.6	6.18	22	32	<10	<5	13.3	42.2	1.89	0.05	<0.1						

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
S1-051-P-3

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
1/18/96	FL 00197	500	0.6	6.86	21				<3	37.9	0.8	7.4	<0.1	<0.8	<6	<0.3	<0.5	<1.2	
4/12/96	FL 00198	450	1.8	6.92	20				11.3	54.8	0.9	4.2	<0.1	<0.8	<6	<0.3	<0.5	<1.2	
7/22/96	FL 00200	820	1.7	6.87	23				7.8	81	0.96	3.8	0.086	<0.8	<6	<0.3	<0.5	<1.2	
10/7/96	FL 00201	900	0.7	6.63	24				14.8	72	1.3	<0.2	<0.1	<5	<10	<5	<5	<10	
1/24/97	FL 00202	800	0.1	6.53	21				16.7	72.1	1.7	<0.2	<0.1	<5	<10	<5	<5	<2	
4/14/97	FL 00718	700	0.2	6.58	20				15.8	72	1.2	<0.2	<0.1	<5	<10	<5	<5	<2	
7/15/97	FL 00819	550	0.2	5.97	23				13.7	44.6	2.4	<0.2	0.2	<5	<10	<5	<5	<2	
10/14/97	FL 01041	700	0.4	6.33	23.1				14.6	60.9	3.78	<0.2	0.1	<5	<10	<5	<5	<2	
1/19/98	FL 01078	775	0.8	6.98	21				13.7	49	2.39	<0.2	<0.1	<5	<10	<5	<5	<2	
2/13/98	FL 01114	700	0.7	6.64	20				13.7	47.2	4.13	<0.2	0.1	<5	<10	<5	<5	<2	
7/21/98	FL 01188														<5	<20	J2	<10	<2
7/21/98	FL 01179	750	0.2	6.55	24				14.7	50.1	1.34	0.1	<0.1						
1/21/99	FL 01268														<5	<20	J4	<10	<2
1/21/99	FL 01261	828	0.8	6.03	22				14.9	57	<0.1	0.06	0.16						

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
S1-106A

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L		
11/1/95	FL 00246	470	15	6.74	25				3	35	<0.1	21.7	<0.2	<0.8	<6	<0.3	<0.5	<1.2		
1/15/96	FL 00247	450	15	6.7	24				<3	47	<0.1	92.3	0.71	<0.8	<6	<0.3	<0.5	<1.2		
4/12/96	FL 00248	400	12.6	7.52	21				<2	43.1	0.2	16.6	0.6	<0.8	<6	<0.3	<0.5	<1.2		
7/22/96	FL 00250	800	7.6	7.26	22				<1	52	<0.1	23.3	1	7	<6	<0.3	<0.5	<1.2		
10/7/96	FL 00251	850	1	6.96	24				2.5	29	<0.1	11.4	0.6	<5	<10	<5	<5	<10		
1/24/97	FL 00252	800	1	6.85	20				3.9	36.5	<0.1	18.2	0.8	<5	<10	<5	<5	<2		
4/15/97	FL 00719	600	0.4	6.75	20				1.1	46.8	<0.1	15.4	1.2	<5	<10	<5	<5	<2		
7/15/97	FL 00820	700	0.1	6.73	23				2.7	44	<0.1	12.9	1.6	32	<10	8	<5	39		
10/15/97	FL 01058	700	0.5	6.93	23.2				2.1	47.1	0.15	9.8	1.5	J 4	<10	<5	<5	2		
1/20/98	FL 01079	550	0.4	6.96	20				5.1	35.2	<0.1	7	0.8	J 4	<10	<5	<5	2		
2/15/98	FL 01124	800	0.7	6.81	21				4.1	59	0.26	8	1	13	<10	6	<5	15		
4/14/98	FL 01159									53.2	0.1	7	1.2	<50	<100	<50	<50	J 38		
4/14/98	FL 01158									51.6	<0.1	7.6	1.3	J 20	<50	<25	<25	J 24		
7/21/98	FL 01180	775	13.8	6.86	24				2.3	57.8	<0.1	10.8	1.2		<5	<20	<5	<10	<2	
7/21/98	FL 01189																			
1/21/99	FL 01269																			
1/21/99	FL 01262	875	5.4	6.16	22				2.7	64.4	<0.1	8.51	1.32		J 4	<20	<5	<10	<2	

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
o-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
S1-106R

Frcnch Limited Projct  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
1/21/98	FL 01089	1000	0.4	6.8	20				26.7	41.1	241	< 0.2	6.7	< 5	< 10	53	< 5	< 2	
2/15/98	FL 01127	950	0.8	6.65	21				25.7	38.7	3.93	< 0.2	6.8	< 5	< 10	57	< 5	< 2	
7/22/98	FL 01210													J 3	< 20	27	< 10	< 2	
7/22/98	FL 01199	800	0.2	7.74	22				14.8	70.6	0.93	< 0.2	5.6						
1/22/99	FL 01285								14.7	60.5	< 0.1	0.06	6.6	J 2	< 20	22	< 10	J 3	
1/22/99	FL 01277	942	0.8	6.19	22														

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

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QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
S1-108A

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
11/1/95	FL 00255	425	0.5	5.98	25				8	17.9	0.8	5.8	<0.2	10	<6	<0.3	<0.5	<1.2	
1/15/96	FL 00256	470	2	6.07	22				51.6	28.2	0.2	51.6	0.33	<0.8	<6	<0.3	<0.5	<1.2	
4/12/96	FL 00257	400	1.8	7.08	20				3.8	34.2	<0.1	4.2	0.1	<0.8	<6	4	3	<1.2	
7/22/96	FL 00259	650	0.1	6.8	25				1.1	38	0.67	0.47	0.23	<0.8	<6	<0.3	<0.5	<1.2	
10/7/96	FL 00260	775	0.8	6.42	25				4.5	34.7	0.4	0.3	0.1	<5	<10	<5	<5	<10	
1/24/97	FL 00261	625	0.1	6.52	20				8	28.7	0.4	<0.2	<0.1	<5	<10	<5	<5	<2	
4/15/97	FL 00720	500	0.6	6.5	19				6	37.1	0.4	<0.2	0.1	<5	<10	<5	<5	<2	
7/15/97	FL 00821	600	0.1	6.34	23				7.5	35.4	0.75	<0.2	<0.2	<5	J 4	<5	<5	<2	
10/14/97	FL 01042	600	0.3	6.31	24.2				7.4	38.8	1.81	<0.2	0.4	<5	<10	<5	<5	<2	
1/20/98	FL 01080	600	0.7	6.74	20				7.2	40.4	0.75	<0.2	0.1	<5	<10	<5	<5	<2	
2/12/98	FL 01106	550	0.5	6.52	20				8.4	38.5	2.2	<0.2	0.1	<5	<10	<5	<5	<2	
7/21/98	FL 01190													J 1	<20	22	<10	<2	
7/21/98	FL 01181	675	0.1	6.56	25				22.8	27.9	1.38	0.3	0.1						
1/21/99	FL 01270																		
1/21/99	FL 01263	653	0.8	6.11	22				10.3	27.5	1.35	<0.02	0.12	<5	<20	<5	<10	<2	

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

Page 1 of 1

IRG04-

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
S1-111

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
12/2/91	FL 00264	1790	0.2	6.45	21.4	8	<20	<25	40		<0.02	290	81	360	1700	430	<100		
7/22/92	FL 00265								42					<25	350	320	78	16	
9/26/92	FL 00266								19					<10	210	210	21	18	
12/16/92	FL 00267	900	4	6.91	19.2								3	130	120	20	<10		
12/26/92	FL 00268									8.05	1.2	<0.05	<0.01						
3/24/93	FL 00269	438	2.8	6.95	18.7				16	5.7	1.51	<0.05	0.03	<5	110	89	17	<10	
6/24/93	FL 00270								16					<5	57	33	4	<10	
6/25/93	FL 00271	248	2.8	6.97	23.5														
9/7/93	FL 00272								25.8	7.81	1.82	0.09	0.03	4	<10	71	10	<10	
12/29/93	FL 00274								16	3.58	0.88	<0.05	0.25	<5	<10	16	<5	<10	
3/22/94	FL 00275	380	1.4	6.92	16									<0.8	<6	8	<0.5	<1.2	
6/7/94	FL 00277													<0.8	<6	5	<0.5	<1.2	
6/7/94	FL 00276	330	0.2	6.85	21														
12/21/94	FL 00279								3.4										
12/21/94	FL 00278	800	15	9.3	24	26.3	132	98.4		155	<0.1	<2	<2	<0.8	<6	<0.3	<0.5	<1.2	
12/15/95	FL 00280	525	15	7.84	21				6.7	126	<0.1	231	18.5	<0.8	<6	<0.3	<0.5	<1.2	
1/15/96	FL 00281	900	15	7.74	22	<10	12	9	9										
4/12/96	FL 00282	600	15	7.18	21	<10	<10	<5											
7/22/96	FL 00284	1050	15	7.53	22	<10	<10	<3		170									
10/7/96	FL 00285	1050	8.9	6.8	24	<10	<10	<5											
1/24/97	FL 00286	850	2.2	6.97	21	<10	<10	<5											
4/15/97	FL 00721	720	0.6	6.96	20	<10	<10	<5											
7/15/97	FL 00822	700	0.2	6.81	23	<10	<10	<5											
10/14/97	FL 01043	720	0.5	6.85	23.5	<10	<10	<5											

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

## QUARTERLY GROUNDWATER MONITORING

French Limited, January 1999

Well Name  
S1-111French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
1/20/98	FL 01081	750	0.7	7.01	21	< 10	< 10	< 5											
2/12/98	FL 01105	700	0.6	6.58	21	< 10	< 10	16											
7/21/98	FL 01183	700	0.1	6.55	25	< 10	< 10	< 5											
1/22/98	FL 01287	727	0.8	6.09	23	< 10	< 10	< 5											

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
 TEMP = Temperature (NC)  
 PB = Lead (15)  
 NH3N = Ammonia-N (NC)  
 12DCA = 1,2-Dichloroethane (5)  
 TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
 AS = Arsenic (50)  
 TOC = Total Organic Carbon (NC)  
 NO3N = Nitrate-N (NC)  
 ACET = Acetone (3500)  
 VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
 CR = Chromium (100)  
 K = Potassium (NC)  
 O-PO4-P = Orthophosphate-P (NC)  
 BENZ = Benzene (5)

< Less than shown detection limit  
 J Detected conc. below detection limit  
 E Conc. exceeded instrument calibration range  
 B Analyte also found in method blank  
 D Concentration derived from dilution  
 NC = No cleanup criteria

## QUARTERLY GROUNDWATER MONITORING

French Limited, January 1999

Well Name  
S1-118French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
5/22/92	FL 00295													<5	<10	5	<5	<10	
12/17/92	FL 00296	230	5.4	6.91	22.9				8					<5	<10	<5	<5	<10	
12/29/93	FL 00297								19										
12/29/93	FL 00298													7	<6	<0.3	<0.5	<1.2	
3/22/94	FL 00299	315	2	6.66	22														
12/21/94	FL 00301																		
12/21/94	FL 00300	308	3.4	6.55	24	5.6	5.3	6.3	9.4	3.63	0.13	<2	<2	<0.8	22	<0.3	<0.5	<1.2	
12/15/95	FL 00302	470	2.2	8	21				9					<0.8	<6	<0.3	<0.5	<1.2	
1/15/96	FL 00303	200	1.6	6.67	24	<10	<10	<5	<0.5	2.7	<0.1	<0.2	<0.1	<0.8	<6	<0.3	<0.5	<1.2	
4/12/96	FL 00304	500	1.6	6.74	21	<10	<10	<5	6.2	1.72	0.1	<0.2	<0.1	<0.8	<6	<0.3	<0.5	<1.2	
7/22/96	FL 00306	310	0.8	6.28	26	<10	<10	<3	6.1	1.5	0.2	<0.05	0.055	<0.8	<6	<0.3	<0.5	<1.2	
10/7/96	FL 00307	825	1.2	6.35	27	<10	<10	<5	5.7	1.89	0.3	<0.2	<0.1	<5	<10	<5	<5	<10	
1/24/97	FL 00308	355	0.15	6.5	23	27	<10	<5	9.1	1.74	<0.1	0.4	<0.1	<5	<10	<5	<5	<2	
4/15/97	FL 00722	300	0.4	6.62	20	<10	<10	<5	6.3	1.94	0.2	<0.2	<0.1	<5	<10	<5	<5	<2	
7/15/97	FL 00823	200	0.1	6.19	25	10	<10	<5	6.6	1.84	0.23	<0.2	<0.2	<5	<10	<5	<5	<2	
10/14/97	FL 01044	315	1.1	6.06	26	10.2	<10	<5	7.7	2.3	0.36	<0.2	<0.1	<5	<10	<5	<5	<2	
1/20/98	FL 01082	335	0.6	7.62	22	<10	<10	<5	7.4	2.04	0.16	<0.2	0.1	<5	<10	<5	<5	<2	
2/13/98	FL 01117	350	0.5	6.58	23	<10	<10	<5	7.9	2	0.34	<0.2	<0.1	<5	<10	<5	<5	<2	
7/22/98	FL 01201	300	3.5	6.25	27	<10	<10	<5	6.6	2.2	0.17	<0.2	<0.1	<5	<20	<5	<10	<2	
1/22/98	FL 01212																		
1/25/99	FL 01293													<5	<20	<5	<10	<2	
1/25/99	FL 01298	374	2	5.92	24	<10	<10	<5	8.3	1.86	0.1	0.02	<0.1						

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
 TEMP = Temperature (NC)  
 PB = Lead (15)  
 NH3N = Ammonia-N (NC)  
 12DCA = 1,2-Dichloroethane (5)  
 TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
 AS = Arsenic (50)  
 TOC = Total Organic Carbon (NC)  
 NO3N = Nitrate-N (NC)  
 ACET = Acetone (3500)  
 VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
 CR = Chromium (100)  
 K = Potassium (NC)  
 O-PO4-P = Orthophosphate-P (NC)  
 BENZ = Benzene (5)

< Less than shown detection limit  
 J Detected conc. below detection limit  
 E Conc. exceeded instrument calibration range  
 B Analyte also found in method blank  
 D Concentration derived from dilution  
 NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
S1-121

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L			
6/20/93	FL 00309								32					<25	<50	220	<25	<50			
12/29/93	FL 00311								762	8.71	1.2	<0.05	0.09	215147	76036	1055	364	7278			
6/7/94	FL 00312	1700	2	6.18	23									69	<6	74	21	45			
12/21/94	FL 00313	900	3.1	7.78	23	10.1	9	7.2		3.1	0.43	<2	<2	26	<6	2	<0.5	<1.2			
12/21/94	FL 00314								20												
5/5/95	FL 00315	700	3	6.56	23					9.4	<0.1	1.3	<0.7	<0.8	<6	<0.3	<0.5	<1.2			
6/6/95	FL 00316	700	5.8	6.59	23					7.4	<0.1	4.1	<0.2	6	<6	<0.3	<0.5	<1.2			
9/1/95	FL 00317	650	15	6.45	25					6.6	2.79	<0.1	<0.2	<0.2	4	<6	<0.3	<0.5	<1.2		
10/2/95	FL 00318	525	6.2	6.51	26					36	3.89	<0.1	<0.2	<0.2	41	<6	12	7	140		
11/1/95	FL 00320									3.86	0.1	2.4	<0.2	12	<6	6	2	49			
11/1/95	FL 00319	750	0.8	6.32	24					17											
12/15/95	FL 00321	700	4.4	6.66	25					35	4.79	0.1	<0.2	<0.1	48	324	57	24	311		
1/18/96	FL 00322	750	10.2	6.8	24					108	108	0.1	56.2	<0.1	40	<6	<0.3	<0.5	17		
4/12/96	FL 00323	750	1.7	6.84	23					14.6	19	0.7	<0.2	<0.1	24	<6	5	<0.5	66		
7/22/96	FL 00325	1300	0.1	6.85	23					5.2	43	0.58	0.75	0.031	8	<6	4	<0.5	8		
10/7/96	FL 00326	1300	1	6.89	25					5.1	34.6	<0.1	6	<0.1	3	<10	<5	<5	<10		
1/24/97	FL 00327	1150	0.1	6.77	22					9.5	53.8	<0.1	9.9	<0.1	<5	<10	<5	<5	<2		
4/15/97	FL 00724	1200	0.2	6.86						11.3	29.9	0.2	<0.2	<0.1	<5	<10	12	<5	<2		
7/15/97	FL 00825	1300		6.6	24					29.6	31	0.63	4.4	10	<5	<10	J3	J4	<2		
11/5/97	FL 01063	1150	1.2	6.4	24.5					4.5	42.6	<0.1	7.8	<0.2	<5	<10	<5	<5	<2		
1/20/98	FL 01084	1100	0.4	7.31	23					6.2	55.4	<0.1	<0.2	<0.1	<5	<10	J2	<5	<2		
2/13/98	FL 01119	1200		6.76	23					7.4	44.4	<0.1	1.2	<0.1	<5	<10	J2	<5	<2		
7/21/98	FL 01182	1125	0.1	6.68	25					7.4	56	<0.1	0.5	<0.1		<5	<20	<5	<10	<2	
7/21/98	FL 01191																				
1/22/99	FL 01279									9.8	41.7	<0.1	1.56	0.12							

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

## QUARTERLY GROUNDWATER MONITORING

French Limited, January 1999

Well Name  
S1-121French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	O-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L		
1/22/99	FL 01271	1211	4.9	6.23	24									64	< 100	J 6	< 50	J 15		

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
 TEMP = Temperature (NC)  
 PB = Lead ( 15)  
 NH3N = Ammonia-N (NC)  
 12DCA = 1,2-Dichloroethane ( 5)  
 TOL = Toluene ( 1000)

DO = Dissolved Oxygen (NC)  
 AS = Arsenic ( 50)  
 TOC = Total Organic Carbon (NC)  
 NO3N = Nitrate-N (NC)  
 ACET = Acetone ( 3500)  
 VINCHL = Vinyl chloride ( 2)

FLDPH = Field pH (NC)  
 CR = Chromium ( 100)  
 K = Potassium (NC)  
 O-PO4-P = Orthophosphate-P (NC)  
 BENZ = Benzene ( 5)

< Less than shown detection limit  
 J Detected conc. below detection limit  
 E Conc. exceeded instrument calibration range  
 B Analyte also found in method blank  
 D Concentration derived from dilution  
 NC = No cleanup criteria

Page 2 of 2

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QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
S1-123

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	O-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
7/22/93	FL 00330													4100	< 500	< 250	< 250	< 500	
12/29/93	FL 00331	700	1.8	8.94	22				11	26.7	< 0.1	< 0.05	0.13	3561	74	50	20	135	
6/7/94	FL 00332	800	4	6.73	24									2400	< 300	< 15	< 25	< 60	
9/5/94	FL 00333	220	15	6.5	30									4	10	< 0.3	< 0.5	< 1.2	
9/5/94	FL 00334																		
12/21/94	FL 00335	600	8	7.18	23.5									16.9	0.11	4.2	< 2	320	< 120
3/12/95	FL 00336	725	15	6.99	23									15.3	< 0.1	12.6	0.2	110	220
4/4/95	FL 00338													3.51	< 0.1	< 0.2	< 0.2		< 7.5
4/4/95	FL 00337	600	14.6	6.91	23									12			< 0.8	< 6	< 0.3
5/5/95	FL 00339	600	15	6.86	23									11	6.1	< 0.1	2.8	< 0.7	17
6/6/95	FL 00341	500	15	6.99	24														< 1.2
6/6/95	FL 00340																		
7/5/95	FL 00342	575	0.6	6.91	24									9	21.2	< 0.1	1.1	0.1	17
8/2/95	FL 00343	550	6.1	6.75	24									15	24.2	0.43	< 0.1	< 0.1	46
9/1/95	FL 00345																		
9/1/95	FL 00344	550	0.3	6.64	24									2					260
10/2/95	FL 00346	420	9.6	6.62	24									26	23.8	0.1	0.3	< 0.2	730
11/1/95	FL 00347	475	15	6.79	25									6	24.9	< 0.1	9.9	< 0.2	1000
12/15/95	FL 00348	370	14.6	6.76	24									8	5.3	< 0.1	7.35	0.81	18
1/23/96	FL 00349	500	3.2	7.13	25									0.43	8.2	< 0.1	2.4	0.43	180
4/12/96	FL 00350	550	2.2	6.98	22									4.8	17	0.3	0.2	0.3	680
7/22/96	FL 00352	1130	5	6.84	24									9.3	28	0.44	< 0.05	0.94	19000
10/7/96	FL 00353	1100	1.2	6.58	26									6.8	7.85	0.6	< 0.2	0.2	4
1/24/97	FL 00354	975	0.2	6.95	23									11.4	8.05	0.6	< 0.2	< 0.1	< 5
4/15/97	FL 00727	400	0.2	6.89	23									4.3	5.67	0.3	< 0.2	0.3	28
7/15/97	FL 00829	1125	0.1	6.66	24									9.5	7.41	0.3	< 0.2	< 0.2	1500

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
S1-123

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L		
10/15/97	FL 01060	1100	0.3	6.78	25.3				15.3	13.3	0.41	< 0.2	2.2	17000	< 50	< 25	32	2800		
10/31/97	FL 01062	1600	0.2	6.47	22				42.4	20.6	0.18	< 0.2	0.9	68000	18000	< 2500	< 2500	4900		
1/20/98	FL 01088	580	0.3	7.04	22				8.4	7	0.17	< 0.2	0.1	160	< 10	< 5	< 5	37		
2/18/98	FL 01137	800	0.6	6.8	23				9.5	9.5	0.37	< 0.2	0.1	4300	< 500	< 250	< 250	470		
4/13/98	FL 01156													46000	< 5000	< 2500	< 2500	< 5000		
4/14/98	FL 01157													11000	J 460	< 500	< 500	< 1000		
4/15/98	FL 01164													12000	J 410	< 500	< 500	J 450		
4/16/98	FL 01167													31000	< 2000	< 1000	< 1000	1100		
7/24/98	FL 01228	1400	0.1	6.58	25									D 240000	J 170	510	J 190	3900		
7/24/98	FL 01236																			
1/22/99	FL 01283																			
1/22/99	FL 01275	1452	0.7	6.24	24				40.4	28.9	0.2	0.05	0.13		65000	< 10000	< 2500	< 5000	J 2400	

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead ( 15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane ( 5)  
TOL = Toluene ( 1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic ( 50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone ( 3500)  
VINCHL = Vinyl chloride ( 2)

FLDPH = Field pH (NC)  
CR = Chromium ( 100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene ( 5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

Page 2 of 2

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
S1-131

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L			
7/17/93	FL 00359														< 25	< 50	600	48	< 50		
5/5/95	FL 00360	1000	5	6.96	24					14	0.1	5.7	< 0.7	< 80	10000	< 30	< 50	< 120			
6/6/95	FL 00361	1200	9.4	6.88	24																
1/23/96	FL 00362	600	9	7.22	24				< 3	62.6	< 0.1	8.6	< 0.1	< 0.8	< 6	8	3	< 1.2			
4/12/96	FL 00363	550	1.4	7.53	22					20.8	91.9	1.8	306	< 0.1	< 0.8	< 6	21	< 0.5	< 1.2		
7/22/96	FL 00365	1300	0.07	6.98	23					17	94	2.2	< 0.05	0.027	6	17	31	< 0.5	< 1.2		
10/7/96	FL 00366	1300	0.8	7.16	25					42.7	93.4	2.2	0.4	< 0.1	< 5	< 10	32	< 5	< 10		
1/24/97	FL 00367	900	0.1	7.81	21					26.1	19	1.9	3.1	< 0.1	< 5	< 10	J 3	< 5	< 2		
4/15/97	FL 00729	950	0.2	7.32	22					40	34.7	0.3	< 0.2	< 0.1	< 5	< 10	J 4	< 5	< 2		
7/15/97	FL 00831	1000	0.2	6.95						43.9	62.4	1.4	< 0.2	0.2	< 5	< 10	21	< 5	< 2		
10/15/97	FL 01061	1000	0.7	7.11						38.2	66.8	2.12	< 0.2	< 0.1	< 5	< 10	21	< 5	< 2		
1/21/98	FL 01090	980	0.6	7.37	22					46.8	66.9	1.3	< 0.2	0.1	< 5	< 10	6	< 5	< 2		
2/17/98	FL 01133	1000	0.7	6.85	23					35	78.6	0.75	0.2	< 0.1	< 5	< 10	58	< 5	< 2		
7/23/98	FL 01220	900	0.4	6.5	24					25.8	74.7	< 0.1	0.3	< 0.1		< 5	< 20	8	< 10	< 2	
7/23/98	FL 01227																				
1/22/99	FL 01286																				
1/22/99	FL 01278	1030	1	6.17	23					34.1	64	0.13	< 0.2	0.1	< 5	< 20	41	< 10	< 2		

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria

QUARTERLY GROUNDWATER MONITORING  
French Limited, January 1999

Well Name  
S1-135

French Limited Project  
FLTG, Inc.

Date Col'd	Sample Number	CONDUCT umhos	DO PPM	FLDpH pH un	TEMP Deg C	AS ug/L	CR ug/L	PB ug/L	TOC mg/L	K mg/L	NH3N mg/L	NO3N mg/L	o-PO4-P mg/L	12DCA ug/L	ACET ug/L	BENZ ug/L	TOL ug/L	VINCHL ug/L	
12/29/93	FL 00372												<0.8	<6	<0.3	5	<1.2		
12/29/93	FL 00373	400	2.8	6.12	20														
12/21/94	FL 00374	455	0.8	6.17	24	209	4.9	<2.5		3.98	0.38	<2	<2	<0.8	<6	<0.3	<0.5	<1.2	
12/21/94	FL 00375								18.1										
12/15/95	FL 00377	420	0.6	6.24	25				52										
12/15/95	FL 00376					195	13	<5						<0.8	<6	<0.3	<0.5	<1.2	
1/15/96	FL 00378	350	1.6	6.46	23	169	13	5	<0.5	7.33	0.9	<0.2	<0.1	<0.8	<6	<0.3	<0.5	<1.2	
4/12/96	FL 00379	300	1.7	6.58	21	40	<10	<5	16.4	5.57	0.7	<0.2	<0.1	<0.8	<6	3	<0.5	<1.2	
7/22/96	FL 00381	450	0.1	6.27	23	62	<10	5.1	16	3.8	0.44	<0.05	0.18	<0.8	<6	<0.3	<0.5	<1.2	
10/7/96	FL 00382	1000	0.6	6.28	25	69	<10	<5	16.5	3.81	0.4	<0.2	<0.1	<5	<10	<5	<5	<10	
1/24/97	FL 00383	400	0.1	6.22	21	47.9	5.2	<0.8	18.4	3.61	0.2	<0.2	<0.1	<5	<10	<5	<5	<2	
4/15/97	FL 00723	300	0.2	6.38	21	98	<10	<5	15.2	3.66	<0.1	<0.2	<0.1	<5	<10	<5	<5	<2	
7/15/97	FL 00824	600	0.1	6.27	24	97	<10	8	27.8	5.94	0.76	<0.2	<0.2	<5	<10	<5	<5	<2	
10/14/97	FL 01045	570	0.1	6.4	25.8	64	<10	<5	29.5	6.7	0.98	<0.2	0.2	<5	<10	<5	<5	<2	
1/20/98	FL 01083	750	0.5	6.81	22	130	<10	<5	32.9	8.4	0.96	<0.2	0.1	<5	<10	<5	<5	<2	
2/12/98	FL 01104	700	0.7	6.43	22	26	<10	<5	34.3	1.22	2.83	<0.2	0.1	<5	<10	<5	<5	<2	
7/22/98	FL 01202	725	0.2	6.35	26	112	<10	<5	30.3	11.3	1.11	<0.2	0.2	<5	<20	<5	<10	<2	
7/22/98	FL 01213																		
1/25/99	FL 01294												<5	<20	<5	<10	<2		
1/25/99	FL 01289	745	0.7	6.06	23	78	<10	<5	30.1	11.9	1.3	<0.02	<0.1						

Number in parentheses is cleanup criteria

CONDU = Specific Conductivity (NC)  
TEMP = Temperature (NC)  
PB = Lead (15)  
NH3N = Ammonia-N (NC)  
12DCA = 1,2-Dichloroethane (5)  
TOL = Toluene (1000)

DO = Dissolved Oxygen (NC)  
AS = Arsenic (50)  
TOC = Total Organic Carbon (NC)  
NO3N = Nitrate-N (NC)  
ACET = Acetone (3500)  
VINCHL = Vinyl chloride (2)

FLDPH = Field pH (NC)  
CR = Chromium (100)  
K = Potassium (NC)  
O-PO4-P = Orthophosphate-P (NC)  
BENZ = Benzene (5)

< Less than shown detection limit  
J Detected conc. below detection limit  
E Conc. exceeded instrument calibration range  
B Analyte also found in method blank  
D Concentration derived from dilution  
NC = No cleanup criteria



**Attachment B**

**French Ltd. Project**

**Field Duplicate Precision Summaries**

**Groundwater Monitoring - January '99**

# Field Duplicate Precision Report

Sample			Duplicate			
INT-127			INT-127D			
Sample Number	Sample Date		Sample Number	Sample Date		
FL 01312	1/28/99		FL 01313	1/28/99		
Concentration	Units	Compound	Units	Concentration	Relative Percent Difference	
VOA	< 5.	ug/L	1,1,1-TRICHLOROETHANE	ug/L	< 5.	NA
	< 5.	ug/L	1,1,2,2-TETRACHLOROETHANE	ug/L	< 5.	NA
	< 5.	ug/L	1,1,2-TRICHLOROETHANE	ug/L	< 5.	NA
J 2.	ug/L	1,1-DICHLOROETHANE	ug/L	J 2.	0.0	
< 5.	ug/L	1,1-DICHLOROETHENE	ug/L	< 5.	NA	
< 5.	ug/L	1,2-DICHLOROETHANE	ug/L	< 5.	NA	
< 10.	ug/L	1,2-DICHLOROETHENE(TOTAL)	ug/L	< 10.	NA	
< 5.	ug/L	1,2-DICHLOROPROPANE	ug/L	< 5.	NA	
< 10.	ug/L	2-BUTANONE	ug/L	< 10.	NA	
< 5.	ug/L	2-HEXANONE	ug/L	< 5.	NA	
< 5.	ug/L	4-METHYL-2-PENTANONE	ug/L	< 5.	NA	
< 20.	ug/L	ACETONE	ug/L	< 20.	NA	
J 3.	ug/L	BENZENE	ug/L	J 3.	0.0	
< 5.	ug/L	BROMODICHLOROMETHANE	ug/L	< 5.	NA	
< 5.	ug/L	BROMOFORM	ug/L	< 5.	NA	
< 10.	ug/L	BROMOMETHANE	ug/L	< 10.	NA	
< 5.	ug/L	CARBON DISULFIDE	ug/L	< 5.	NA	
< 5.	ug/L	CARBON TETRACHLORIDE	ug/L	< 5.	NA	
< 5.	ug/L	CHLOROBENZENE	ug/L	< 5.	NA	
< 10.	ug/L	CHLOROETHANE	ug/L	< 10.	NA	
J 2.	ug/L	CHLOROFORM	ug/L	< 5.	NA	
< 10.	ug/L	CHLOROMETHANE	ug/L	< 10.	NA	
< 5.	ug/L	CIS-1,2-DICHLOROETHENE	ug/L	< 5.	NA	
< 5.	ug/L	CIS-1,3-DICHLOROPROPENE	ug/L	< 5.	NA	
< 10.	ug/L	DIBROMOCHLOROMETHANE	ug/L	< 10.	NA	
< 10.	ug/L	ETHYLBENZENE	ug/L	< 10.	NA	
< 5.	ug/L	METHYLENE CHLORIDE	ug/L	< 5.	NA	
< 5.	ug/L	STYRENE	ug/L	< 5.	NA	
< 5.	ug/L	TETRACHLOROETHENE	ug/L	< 5.	NA	
< 10.	ug/L	TOLUENE	ug/L	< 10.	NA	
< 10.	ug/L	TRANS-1,2-DICHLOROETHENE	ug/L	< 10.	NA	
< 5.	ug/L	TRANS-1,3-DICHLOROPROPENE	ug/L	< 5.	NA	
< 5.	ug/L	TRICHLOROETHENE	ug/L	< 5.	NA	
< 10.	ug/L	VINYL ACETATE	ug/L	< 10.	NA	
< 2.	ug/L	VINYL CHLORIDE	ug/L	< 2.	NA	
< 5.	ug/L	XYLENE(TOTAL)	ug/L	< 5.	NA	

< = Compound Not Detected at the limited detection limit.  
 NA = Not Applicable

# Field Duplicate Precision Report

Sample				Duplicate		
INT-134				INT-134D		
Sample Number	Sample Date	Sample Number	Sample Date			
FL 01316	1/28/99	FL 01317	1/28/99			
Concentration	Units	Compound	Units	Concentration	Relative Percent Difference	
VOA						
< 5.	ug/L	1,1,1-TRICHLOROETHANE	ug/L	< 5.	NA	
< 5.	ug/L	1,1,2,2-TETRACHLOROETHANE	ug/L	< 5.	NA	
J 2.	ug/L	1,1,2-TRICHLOROETHANE	ug/L	J 2.	0.0	
63.	ug/L	1,1-DICHLOROETHANE	ug/L	62.	1.6	
< 5.	ug/L	1,1-DICHLOROETHENE	ug/L	< 5.	NA	
110.	ug/L	1,2-DICHLOROETHANE	ug/L	100.	9.5	
43.	ug/L	1,2-DICHLOROETHENE(TOTA	ug/L	42.	2.4	
8.	ug/L	1,2-DICHLOROPROPANE	ug/L	7.	13.3	
< 10.	ug/L	2-BUTANONE	ug/L	< 10.	NA	
< 5.	ug/L	2-HEXANONE	ug/L	< 5.	NA	
< 5.	ug/L	4-METHYL-2-PENTANONE	ug/L	< 5.	NA	
< 20.	ug/L	ACETONE	ug/L	< 20.	NA	
30.	ug/L	BENZENE	ug/L	29.	3.4	
< 5.	ug/L	BROMODICHLOROMETHANE	ug/L	< 5.	NA	
< 5.	ug/L	BROMOFORM	ug/L	< 5.	NA	
< 10.	ug/L	BROMOMETHANE	ug/L	< 10.	NA	
< 5.	ug/L	CARBON DISULFIDE	ug/L	< 5.	NA	
< 5.	ug/L	CARBON TETRACHLORIDE	ug/L	< 5.	NA	
J 2.	ug/L	CHLOROBENZENE	ug/L	J 2.	0.0	
< 10.	ug/L	CHLOROETHANE	ug/L	< 10.	NA	
7.	ug/L	CHLOROFORM	ug/L	7.	0.0	
< 10.	ug/L	CHLOROMETHANE	ug/L	< 10.	NA	
8.	ug/L	CIS-1,2-DICHLOROETHENE	ug/L	8.	0.0	
< 5.	ug/L	CIS-1,3-DICHLOROPROPENE	ug/L	< 5.	NA	
< 10.	ug/L	DIBROMOCHLOROMETHANE	ug/L	< 10.	NA	
< 10.	ug/L	ETHYLBENZENE	ug/L	< 10.	NA	
< 5.	ug/L	METHYLENE CHLORIDE	ug/L	< 5.	NA	
< 5.	ug/L	STYRENE	ug/L	< 5.	NA	
< 5.	ug/L	TETRACHLOROETHENE	ug/L	< 5.	NA	
< 10.	ug/L	TOLUENE	ug/L	< 10.	NA	
35.	ug/L	TRANS-1,2-DICHLOROETHEN	ug/L	34.	2.9	
< 5.	ug/L	TRANS-1,3-DICHLOROPROPENE	ug/L	< 5.	NA	
J 2.	ug/L	TRICHLOROETHENE	ug/L	J 2.	0.0	
< 10.	ug/L	VINYL ACETATE	ug/L	< 10.	NA	
190.	ug/L	VINYL CHLORIDE	ug/L	190.	0.0	
< 5.	ug/L	XYLENE(TOTAL)	ug/L	< 5.	NA	

< = Compound Not Detected at the limited detection limit.  
 NA = Not Applicable

# Field Duplicate Precision Report

Sample			Duplicate			
S1-121			S1-121D			
Sample Number	Sample Date		Sample Number	Sample Date		
FL 01271	1/22/99		FL 01272	1/22/99		
Concentration	Units	Compound	Units	Concentration	Relative Percent Difference	
VOA	<25.	ug/L	1,1,1-TRICHLOROETHANE	ug/L	<25.	NA
	<25.	ug/L	1,1,2,2-TETRACHLOROETHANE	ug/L	<25.	NA
	<25.	ug/L	1,1,2-TRICHLOROETHANE	ug/L	<25.	NA
	30.	ug/L	1,1-DICHLOROETHANE	ug/L	30.	0.0
	<25.	ug/L	1,1-DICHLOROETHENE	ug/L	<25.	NA
	64.	ug/L	1,2-DICHLOROETHANE	ug/L	63.	1.6
J 115.	ug/L	1,2-DICHLOROETHENE(TOTA)	ug/L	J 120.	4.3	
	<25.	ug/L	1,2-DICHLOROPROPANE	ug/L	<25.	NA
	<50.	ug/L	2-BUTANONE	ug/L	<50.	NA
	<25.	ug/L	2-HEXANONE	ug/L	<25.	NA
	<25.	ug/L	4-METHYL-2-PENTANONE	ug/L	<25.	NA
	<100.	ug/L	ACETONE	ug/L	<100.	NA
J 6.	ug/L	BENZENE	ug/L	J 6.	0.0	
	<25.	ug/L	BROMODICHLOROMETHANE	ug/L	<25.	NA
	<25.	ug/L	BROMOFORM	ug/L	<25.	NA
	<50.	ug/L	BROMOMETHANE	ug/L	<50.	NA
	<25.	ug/L	CARBON DISULFIDE	ug/L	<25.	NA
	<25.	ug/L	CARBON TETRACHLORIDE	ug/L	<25.	NA
	<25.	ug/L	CHLOROBENZENE	ug/L	<25.	NA
	<50.	ug/L	CHLOROETHANE	ug/L	<50.	NA
670.	ug/L	CHLOROFORM	ug/L	670.	0.0	
	<50.	ug/L	CHLOROMETHANE	ug/L	<50.	NA
95.	ug/L	CIS-1,2-DICHLOROETHENE	ug/L	94.	1.1	
	<25.	ug/L	CIS-1,3-DICHLOROPROPENE	ug/L	<25.	NA
	<50.	ug/L	DIBROMOCHLOROMETHANE	ug/L	<50.	NA
	<50.	ug/L	ETHYLBENZENE	ug/L	<50.	NA
	<25.	ug/L	METHYLENE CHLORIDE	ug/L	<25.	NA
	<25.	ug/L	STYRENE	ug/L	<25.	NA
95.	ug/L	TETRACHLOROETHENE	ug/L	95.	0.0	
	<50.	ug/L	TOLUENE	ug/L	<50.	NA
J 22.	ug/L	TRANS-1,2-DICHLOROETHEN	ug/L	J 22.	0.0	
	<25.	ug/L	TRANS-1,3-DICHLOROPROPENE	ug/L	<25.	NA
170.	ug/L	TRICHLOROETHENE	ug/L	170.	0.0	
<50.	ug/L	VINYL ACETATE	ug/L	<50.	NA	
J 15.	ug/L	VINYL CHLORIDE	ug/L	J 15.	0.0	
<25.	ug/L	XYLENE(TOTAL)	ug/L	<25.	NA	

< = Compound Not Detected at the limited detection limit.  
 NA = Not Applicable

# Field Duplicate Precision Report

Sample				Duplicate			
INT-134				INT-134D			
Sample Number		Sample Date		Sample Number		Sample Date	
FL 01307		1/28/99		FL 01308		1/28/99	
Concentration		Units		Compound		Units	
NUT	<.1	mg/L		AMMONIA-N		mg/L	.2
	16.8	mg/L		NITRATE-N		mg/L	16.5
	.16	mg/L		ORTHOPHOSPHATE-P		mg/L	.15
	2.15	mg/L		POTASSIUM		mg/L	2.
MISC	45.3	mg/L		TOTAL ORGANIC CARBON		mg/L	45.3

<= Compound Not Detected at the limited detection limit.  
NA = Not Applicable

# Field Duplicate Precision Report

Sample				Duplicate		
INT-127				INT-127D		
Sample Number	Sample Date	Sample Number	Sample Date			
FL 01303	1/28/99	FL 01304	1/28/99			
Concentration	Units	Compound	Units	Concentration	Relative Percent Difference	
NUT .4	mg/L	AMMONIA-N	mg/L	.4	0.0	
.6	mg/L	NITRATE-N	mg/L	.6	0.0	
<.1	mg/L	ORTHOPHOSPHATE-P	mg/L	<.1	NA	
4.83	mg/L	POTASSIUM	mg/L	4.95	2.5	
MISC 9.8	mg/L	TOTAL ORGANIC CARBON	mg/L	9.9	1.0	

< = Compound Not Detected at the limited detection limit.  
NA = Not Applicable

# Field Duplicate Precision Report

Sample				Duplicate		
S1-121				S1-121 D		
Sample Number	Sample Date	Sample Number	Sample Date			
FL 01279		FL 01280				
Concentration	Units	Compound	Units	Concentration	Relative Percent Difference	
NUT	<.1 1.56 .12 41.7	mg/L mg/L mg/L mg/L	AMMONIA-N NITRATE-N ORTHOPHOSPHATE-P POTASSIUM	mg/L mg/L mg/L mg/L	<.1 1.69 .12 40.6	NA 8.0 0.0 2.7
MISC	9.8	mg/L	TOTAL ORGANIC CARBON	mg/L	9.7	1.0

< = Compound Not Detected at the limited detection limit.  
NA = Not Applicable



**Attachment C**

**French Ltd. Project**

**Ron Jansen's Memo dated July 6<sup>th</sup> ,1998**

**(with attachments)**



## Remedial Operations Group, Inc.

5514 Decker Drive  
Baytown, TX 77520

Phone: (281)838-1086  
FAX: (281)838-4024

### MEMO

**TO:** Mark Collins, Operators  
**FROM:** Ron Jansen  
**CC:** Dick Sloan, Jim Thomson  
**DATE:** 7/6/98  
**SUBJECT:** Semi-annual Sampling Event at French Ltd. Project, July, 1998

This memo describes a procedure to be utilized for the groundwater sampling event to take place the week of July 20, 1998. The following procedure will be used to collect groundwater samples from all of the normal remediation progress monitoring wells at the French Ltd. Site.

#### General Description

This method describes a hybrid of micro-purge and standard well bailing groundwater sampling(purging three well volumes). As with the micro-purge method, there will be a relatively small volume of purge water. As with conventional well bailing, the confidence in sample representativeness should be greater.

A pump will be placed between the water surface and the top of the screen (10 feet below water surface is ideal). As water is purged from the well, water from the aquifer will displace the stagnant water between the top of the casing and the pump. Because each well is different (water level, screen depth/length, etc.), the levels at which the pump should be placed and the number of purge cycles may be different.

#### Equipment / Material

Groundwater sampling trailer (with variable speed pump, decon facilities and purge water holding tank); micro-purge pump; standard sampling supplies (sample containers, ice chests; field measurement instruments, PPE, etc.)

#### Procedure

Before measuring water levels, all wells fitted with sealing-type well caps should have the caps removed, and water levels should be allowed to equilibrate with the surface air pressure(this process takes approximately one hour). All wells should initially be measured for depth to water level and all readings recorded properly. The well sampling sequence should strictly follow the attached sheet. Prior to collecting a sample, the well purge pump should be placed at the levels specified on the attached Table. Water should be purged out of the well according to the depths and intervals shown in Table 1. The water will be pumped out of the well until the water level is down to the level of the pump. The water level will be allowed to recover to within 1½ feet of the original water level. Repeat this procedure the number of times specified in Table 1 for each well. After the last cycle of purging, the pump and purge hose should be removed from the well and decontaminated thoroughly. The water level will be allowed to recover to within 1½ feet of the original water level prior to collecting a sample via the stainless steel micro-purge tubing installed in the well.

Analytical requirements for the groundwater samples and field data sheets are attached. Please note that samples for metals analysis\*, (Arsenic, Chromium and Lead) should be filtered in the field with a 0.45 micron in-line filter. Only use the in-line filter when filling the sample containers for metals analysis (250 ml to 1000 ml plastic with nitric acid). Other than the above stated changes in sampling/purging protocol, the remainder of the sampling event should be the same as in all previous sampling events (e.g. requested analytical tests, field measurements, etc.)

**LONG TERM MONITORING WELLS**  
**Hybrid Sampling-Pump Placement**

French Ltd. Project

**Table 1**

Well Name	Location	Pump Placement (ft BGS)*	Pump Placement (ft BWL)*	Number of Purge/Recovery Cycles
FLTG-013	West of East pond		10	2
FLTG-014	West of East pond	2		10
INT-060-P-3	N of GPR, 200' West of MCC-1		10	2
INT-108	South of GPR, 190' West of Gate		10	2
INT-118	Off Highway 90, far West end		10	2
INT-135	West edge of landfill		10	2
INT-144	Rieandeau property		10	2
INT-214	80' East of Northeast corner of landfill		10	2
S1-031	20' South of wall at West end		10	2
S1-033	Northeast corner of landfill	7		3
S1-051-P-3	South of GPR, 450' West of gate	8		3
S1-106A	South of GPR, 100' East of gate		10	2
S1-108A	South of GPR, 190' West of gate	8		3
S1-111	Northwest corner of South pond		10	2
S1-118	Off Highway 90, far West end	8		3
S1-135	West edge of landfill	8		3
S1-121	Between wall and office building		10	2
INT-022	Northeast corner of landfill		10	2
INT-059-P-2	N of GPR, 300' West of MCC-1		10	2
S1-106R	200' Southeast of gate		10	2
S1-131	30' Southeast of wall at East end		10	2
INT-101	200' Southwest of west end		10	2
INT-120	West of INT-11 wall		10	2
INT-217	200' West of South pond		10	2
INT-106	50' South of GPR, 100' East of Gate		10	2
INT-026	South of GPR, 450' West of Gate		10	2
INT-127	South of INT-11 wall		10	2
INT-130RS	South of Office Bldg	8		3
INT-123	East of INT-11 wall		10	2
INT-134	West edge of landfill		10	2
INT-130R	South of Office Bldg		10	2
S1-123	30' South of office building		10	2
INT-233	40' South of west end		10	2
<b>Notes to Samplers:</b>				
• Because some wells are screened shallow, the pump will be placed a measured distance Below Ground Surface (BGS) or Below Water Level (BWL). Distinction is made based on historical water levels and well completion data.				
<b>BWL = Below water level</b>				
<b>BGS = Below ground surface (not measured from top of casing)</b>				

**APPENDIX B**

**April 1996 - January 1999 water levels**

**Post-operational groundwater levels**

**Table 1 - Depth to water (feet)**

Well/gauge/ date	1/15/98	3/12/98	4/6/98	5/8/98	7/20/98	1/15/99	1/20/99	Average 5/31/97 - 1/20/99
South Pond	10.06	9.80	9.78	9.68	9.60	9.98	NM	9.63
East Slough	10.18	9.38	9.30	NM	NM	9.54	NM	9.20
FLTG-13	1.27	1.92	2.36	3.39	5.57	1.62	1.75	2.88
FLTG-14	1.20	1.50	1.88	2.88	5.23	1.35	1.44	2.52
INT-22	3.62	4.43	3.69	5.88	5.90	3.82	3.89	4.61
INT-26	2.00	2.50	2.41	2.75	2.82	2.00	2.08	2.57
INT-59-2	4.64	5.19	NM	NM	6.33	5.26	5.58	5.46
INT-60-3	4.35	4.96	4.88	5.30	5.55	4.56	4.68	5.09
INT-101	3.81	4.85	4.35	NM	7.02	4.81	4.58	5.02
INT-106	0.82	1.75	2.10	2.66	4.12	1.03	1.50	2.34
INT-108	3.15	3.82	3.78	4.14	4.53	3.30	3.49	3.95
INT-116	NM	9.90	10.06	10.85	12.70	9.49	NM	10.60
INT-118	8.05	8.50	9.35	10.06	11.81	8.74	8.91	9.45
INT-120	7.13	7.87	7.89	8.39	9.01	7.32	7.52	8.09
INT-123	7.38	8.26	8.72	9.20	10.25	7.68	8.02	8.71
INT-127	0.81	1.35	NM	NM	3.44	0.73	0.64	1.75
INT-130R	0.72	0.70	1.63	2.90	3.91	0.75	1.04	2.03
INT-130RS	0.87	1.53	1.66	3.31	4.35	1.14	1.35	2.41
INT-134	6.90	8.11	10.25	NM	12.45	9.55	9.68	8.89
INT-135	10.29	11.48	11.43	12.73	13.58	10.84	10.72	11.64
INT-144	13.92	15.03	14.11	15.39	17.25	14.10	14.15	15.05
INT-147	3.85	NM	NM	NM	8.28	NM	NM	5.64
INT-148	7.76	NM	NM	NM	11.50	NM	NM	9.57
INT-149	12.95	NM	NM	NM	16.00	NM	NM	14.32
INT-150	2.93	NM	NM	NM	4.41	NM	NM	3.93
INT-151	2.71	NM	NM	NM	4.13	NM	NM	3.74
INT-152	2.44	NM	NM	NM	3.76	NM	NM	3.59
INT-153	4.34	NM	NM	NM	6.33	NM	NM	5.85
INT-154	3.89	NM	NM	NM	7.89	NM	NM	6.49
INT-155	6.15	NM	NM	NM	9.46	NM	NM	7.95
INT-156	2.43	NM	NM	NM	NM	NM	NM	3.54
INT-214	1.40	2.08	1.94	2.77	3.55	2.05	2.00	2.37
INT-217	1.65	2.37	2.42	NM	3.82	1.95	2.02	2.58
INT-223	4.80	5.40	5.39	NM	6.78	5.13	5.15	5.63
P-5	7.57	8.10	8.01	8.40	8.61	7.68	NM	8.23
P-6	4.56	8.61	8.06	8.06	8.97	7.25	NM	7.67
S1-3	5.84	6.43	6.32	7.20	9.36	6.50	6.03	6.81
S1-33	1.76	2.34	2.24	3.04	4.26	1.95	1.95	2.66
S1-51-3	1.96	2.45	2.37	2.70	2.90	2.10	2.20	2.56
S1-64	4.23	5.22	5.38	6.18	8.45	4.89	NM	5.80
S1-105	1.11	2.05	2.42	3.48	5.28	1.40	NM	2.76
S1-106A	0.30	1.27	1.67	2.37	3.65	0.60	0.68	1.85
S1-106R	4.46	5.60	6.10	7.15	8.59	4.68	4.98	6.35
S1-108A	3.87	4.56	4.52	4.88	5.25	4.00	4.40	4.69
S1-111	2.03	2.49	2.42	2.75	3.03	2.18	2.20	2.61
S1-116	NM	6.50	6.71	7.36	9.24	6.31	NM	7.22
S1-118	6.91	7.78	8.20	8.91	10.71	7.56	7.95	8.37
S1-119	7.55	8.31	7.93	8.29	9.65	7.16	NM	8.15
S1-121	6.87	7.93	8.31	9.19	10.42	7.22	7.28	8.45
S1-123	0.00	0.72	1.24	2.30	2.90	0.27	0.40	1.47
S1-126	3.54	4.81	4.40	4.87	6.45	3.56	NM	4.53
S1-131	4.75	5.91	5.90	6.75	9.37	5.71	5.83	6.38
S1-135	4.90	5.60	6.06	6.98	8.88	5.41	5.68	6.37
S1-136	4.70	5.44	5.60	NM	8.94	5.17	NM	6.09
S1-138	4.64	5.56	5.69	NM	8.82	5.25	NM	6.11
S1-139	5.67	6.92	7.25	NM	10.47	6.84	NM	7.21
S1-140	3.96	NM	NM	NM	5.32	NM	NM	5.11
S1-141	4.36	NM	NM	NM	7.90	NM	NM	6.91
S1-142	3.78	NM	NM	NM	9.69	NM	NM	7.07

**Post-operational groundwater levels**  
**Table 2 - Top of casing elevation (feet MSL)**

Well/gauge/date	1/15/98	3/12/98	4/6/98	5/8/98	7/20/98	1/15/99	1/20/99	Latest elevation
South Pond	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
East Slough	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
FLTG-13	11.81	11.81	11.81	11.81	11.81	11.81	11.81	11.81
FLTG-14	11.48	11.48	11.48	11.48	11.48	11.48	11.48	11.48
INT-22	14.27	14.27	14.27	14.27	14.27	14.27	14.27	14.27
INT-26	12.33	12.33	12.33	12.33	12.33	12.33	12.33	12.33
INT-59-P2	14.93	14.93	15.50	15.50	15.50	15.50	15.50	15.50
INT-60-P3	14.68	14.68	14.68	14.68	14.68	14.68	14.68	14.68
INT-101	13.15	13.15	13.15	13.15	13.15	13.15	13.15	13.15
INT-106	11.62	11.62	11.62	11.62	11.62	11.62	11.62	11.62
INT-108	13.55	13.55	13.55	13.55	13.55	13.55	13.55	13.55
INT-118	19.58	19.58	19.58	19.58	19.58	19.58	19.58	19.58
INT-120	17.61	17.61	17.61	17.61	17.61	17.61	17.61	17.61
INT-123	18.04	18.04	18.04	18.04	18.04	18.04	18.04	18.04
INT-127	11.18	11.18	11.18	11.18	11.18	11.18	11.18	11.18
INT-130R	11.24	11.24	11.24	11.24	11.24	11.24	11.24	11.24
INT-130RS	11.63	11.63	11.63	11.63	11.63	11.63	11.63	11.63
INT-134	14.86	14.86	17.04	17.04	17.04	17.04	17.04	17.04
INT-135	18.02	18.02	18.02	18.02	18.02	18.02	18.02	18.02
INT-144	18.89	18.89	18.89	18.89	18.89	18.89	18.89	18.89
INT-147	14.46	14.46	14.46	14.46	14.46	14.46	14.46	14.46
INT-148	15.54	15.54	15.54	15.54	15.54	15.54	15.54	15.54
INT-149	19.52	19.52	19.52	19.52	19.52	19.52	19.52	19.52
INT-150	13.36	13.36	13.36	13.36	13.36	13.36	13.36	13.36
INT-151	12.92	12.92	12.92	12.92	12.92	12.92	12.92	12.92
INT-152	12.59	12.59	12.59	12.59	12.59	12.59	12.59	12.59
INT-153	14.74	14.74	14.74	14.74	14.74	14.74	14.74	14.74
INT-154	14.58	14.58	14.58	14.58	14.58	14.58	14.58	14.58
INT-155	14.65	14.65	14.65	14.65	14.65	14.65	14.65	14.65
INT-156	11.84	11.84	11.84	11.84	11.84	11.84	11.84	11.84
INT-214	11.93	11.93	11.93	11.93	11.93	11.93	11.93	11.93
INT-217	11.13	11.13	11.13	11.13	11.13	11.13	11.13	11.13
INT-233	15.38	15.38	15.38	15.38	15.38	15.38	15.38	15.38
P-5	17.85	17.85	17.85	17.85	17.85	17.85	17.85	17.85
P-6	18.45	18.45	18.45	18.45	18.45	18.45	18.45	18.45
S1-31	16.46	16.46	16.46	16.84	16.84	16.84	16.84	16.84
S1-33	12.78	12.78	12.78	12.78	12.78	12.78	12.78	12.78
S1-51-P3	12.22	12.22	12.22	12.22	12.22	12.22	12.22	12.22
S1-64	14.61	14.61	14.61	14.61	14.61	14.61	14.61	14.61
S1-105	11.91	11.91	11.91	11.91	11.91	11.91	11.91	11.91
S1-106A	11.22	11.22	11.22	11.22	11.22	11.22	11.22	11.22
S1-106R	15.53	15.53	15.53	15.53	15.53	15.53	15.53	15.53
S1-108A	14.26	14.26	14.26	14.26	14.26	14.26	14.26	14.26
S1-111	12.30	12.30	12.30	12.30	12.30	12.30	12.30	12.30
S1-113	18.92	18.92	18.92	18.92	18.92	18.92	18.92	18.92
S1-119	18.49	18.49	18.49	18.49	18.49	18.49	18.49	18.49
S1-121	17.85	17.85	17.85	17.85	17.85	17.85	17.85	17.85
S1-123	10.77	10.77	10.77	10.77	10.77	10.77	10.77	10.77
S1-125	14.75	14.75	14.75	14.75	14.75	14.75	14.75	14.75
S1-131	15.21	15.21	15.21	15.61	15.61	15.61	15.61	15.61
S1-135	18.02	18.02	18.02	18.02	18.02	18.02	18.02	18.02
S1-136	14.98	14.98	14.98	14.98	14.98	14.98	14.98	14.98
S1-138	14.99	14.99	14.99	14.99	14.99	14.99	14.99	14.99
S1-139	15.84	15.84	15.84	15.84	15.84	15.84	15.84	15.84
S1-140	14.27	14.27	14.27	14.27	14.27	14.27	14.27	14.27
S1-141	15.15	15.15	15.15	15.15	15.15	15.15	15.15	15.15
S1-142	14.81	14.81	14.81	14.81	14.81	14.81	14.81	14.81

**Post-operational groundwater levels**  
**Table 3 - Water elevation (feet MSL)**

Well/gauge/date	1/15/98	3/12/98	4/6/98	5/8/98	7/20/98	1/15/99	1/20/99	Average 5/31/97 - 1/20/99
South Pond	10.06	9.80	9.78	9.68	9.60	9.98		9.63
East Slough	10.18	9.38	9.30			9.54		9.20
FLTG-13	10.54	9.89	9.45	8.42	6.24	10.19	10.06	8.93
FLTG-14	10.28	9.98	9.60	8.60	6.25	10.13	10.04	8.96
INT-22	10.65	9.84	10.58	8.39	8.37	10.45	10.38	9.66
INT-26	10.33	9.83	9.92	9.58	9.51	10.33	10.25	9.76
INT-59-P2	10.29	9.74			9.17	10.24	9.92	9.62
INT-60-P3	10.33	9.72	9.80	9.38	9.13	10.12	10.00	9.59
INT-101	9.34	8.30	8.80		6.13	8.34	8.57	8.13
INT-105	10.80	9.87	9.52	8.96	7.50	10.59	10.12	9.28
INT-108	10.40	9.73	9.77	9.41	9.02	10.25	10.06	9.60
INT-113	11.53	11.08	10.23	9.52	7.77	10.84	10.67	10.13
INT-120	10.48	9.74	9.72	9.22	8.60	10.29	10.09	9.52
INT-123	10.66	9.78	9.32	8.84	7.79	10.36	10.02	9.33
INT-127	10.37	9.83			7.74	10.45	10.54	9.43
INT-13CR	10.52	10.54	9.61	8.34	7.33	10.49	10.20	9.21
INT-130RS	10.76	10.10	9.97	8.32	7.28	10.49	10.28	9.22
INT-134	7.96	6.75	6.79		4.59	7.49	7.36	6.70
INT-135	7.73	6.54	6.59	5.29	4.44	7.18	7.30	6.38
INT-144	4.97	3.86	4.78	3.50	1.64	4.79	4.74	3.84
INT-147	10.61				6.18			8.82
INT-148	7.78				4.04			5.97
INT-149	6.57				3.52			5.20
INT-150	10.43				8.95			9.43
INT-151	10.21				8.79			9.18
INT-152	10.15				8.83			9.00
INT-153	10.40				8.41			8.89
INT-154	10.69				6.69			8.09
INT-155	8.50				5.19			6.70
INT-153	9.41							8.30
INT-214	10.53	9.85	9.99	9.16	8.38	9.88	9.93	9.56
INT-217	9.48	8.76	8.71		7.31	9.18	9.11	8.56
INT-233	10.58	9.98	9.99		8.60	10.25	10.23	9.75
P-5	10.28	9.75	9.84	9.45	9.24	10.17		9.62
P-6	13.89	9.84	10.39	10.39	9.48	11.20		10.78
S1-31	10.62	10.03	10.14	9.64	7.48	10.34	10.81	9.77
S1-33	11.02	10.44	10.54	9.74	8.52	10.83	10.83	10.12
S1-51-F3	10.26	9.77	9.85	9.52	9.32	10.12	10.02	9.66
S1-64	10.38	9.39	9.23	8.43	6.16	9.72		8.81
S1-105	10.80	9.86	9.49	8.43	6.63	10.51		9.15
S1-106A	10.92	9.95	9.55	8.85	7.57	10.62	10.54	9.37
S1-106R	11.07	9.93	9.43	8.38	6.94	10.85	10.55	9.18
S1-108A	10.39	9.70	9.74	9.38	9.01	10.26	9.86	9.57
S1-111	10.27	9.81	9.88	9.55	9.27	10.12	10.10	9.69
S1-118	12.01	11.14	10.72	10.01	8.21	11.36	10.97	10.55
S1-119	10.94	10.18	10.56	10.20	8.84	11.33		10.34
S1-121	10.98	9.92	9.54	8.66	7.43	10.63	10.57	9.40
S1-123	10.77	10.05	9.53	8.47	7.87	10.50	10.37	9.30
S1-126	11.21	9.94	10.35	9.88	8.30	11.19		10.22
S1-131	10.46	9.30	9.31	8.86	6.24	9.90	9.78	8.95
S1-135	13.12	12.42	11.96	11.04	9.14	12.61	12.34	11.65
S1-136	10.28	9.54	9.38		6.04	9.81		8.89
S1-138	10.35	9.43	9.30		6.17	9.74		8.88
S1-139	10.17	8.92	8.59		5.37	9.00		8.63
S1-140	10.31				8.95			9.16
S1-141	10.79				7.25			8.24
S1-142	11.03				5.12			7.74